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ABSTRACT

The Great Lakes are the largest series of fresh water bodies in the world. They are used for a wide variety of purposes by the 37 million citizens of the United States and Canada who live near the lakes and share this resource. This guide is intended to guide youth in acquiring training and field experience related to the Great Lakes in areas such as ecology, marine careers, natural resources, economics, recreation, history, and culture. This project guide for students in grades 6-12 suggests activities for learning about the Great Lakes and provides an extensive list of references and resources for further study. Units include: (1) "Recreation"; (2) "Heritage"; (3) "Ecology"; and (4) "Economics." Each includes objectives and suggestions for activities at the beginning, intermediate, and advanced levels. The reference section, which constitutes the bulk of the guide, lists resources organized by media type including audiovisuals, maps and charts, software, and publications. Within each section, the resources are organized by content topic. (CW)

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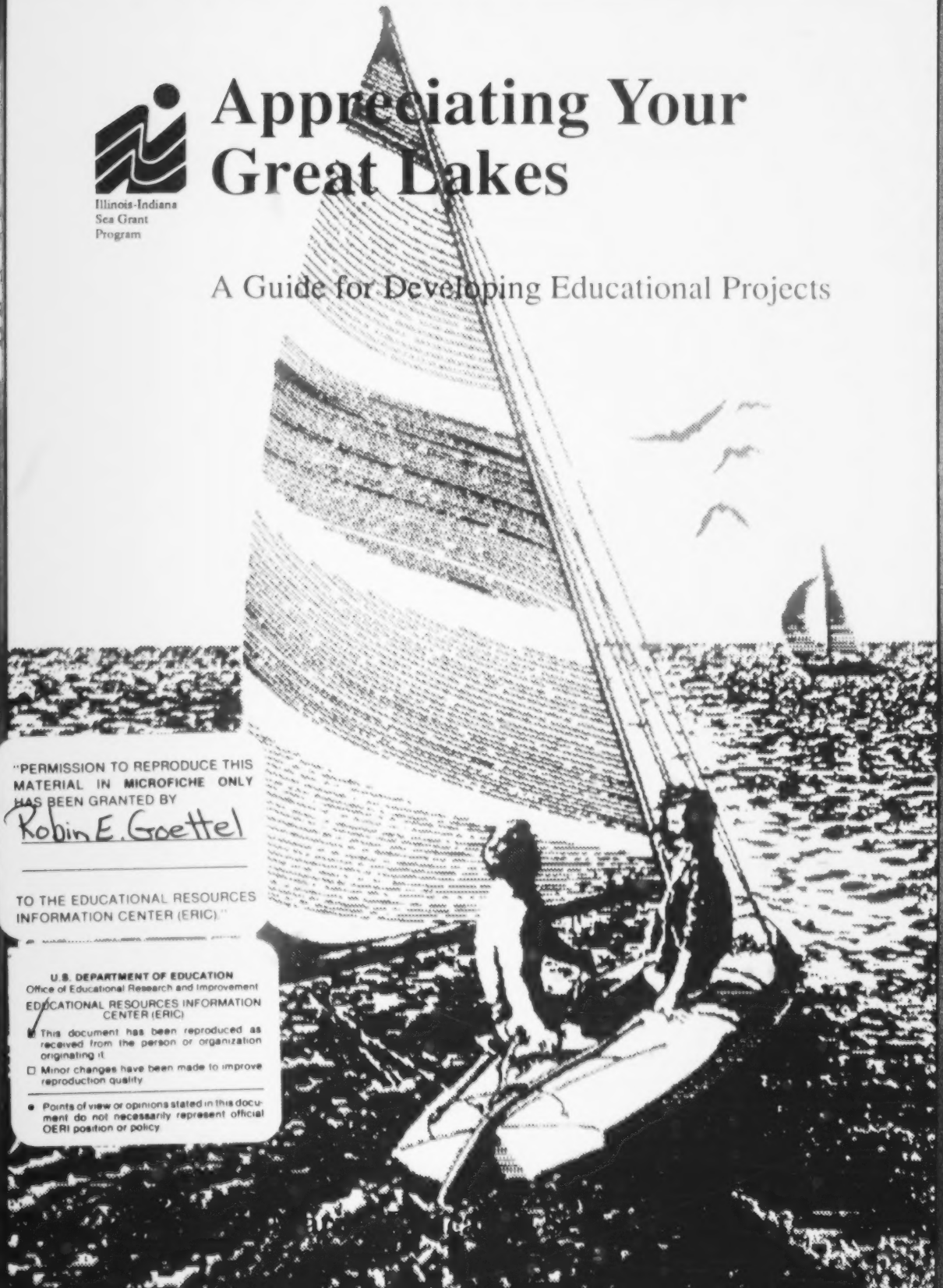
Appreciating Your Great Lakes

Illinois-Indiana
Sea Grant
Program

A Guide for Developing Educational Projects



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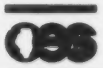

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Illinois-Indiana
Sea Grant
Program

Appreciating Your Great Lakes

A Guide for Developing Educational Projects

4-H Marine Education Series - 2

4-H Youth Programs, Cooperative Extension Service,
University of Illinois and Purdue University

Appreciating Your Great Lakes has been adapted from:
Guide to Projects and Activities for the 4-H Great Lakes Heritage Program,
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INTRODUCTION TO THE ACTIVITY SECTION

The Great Lakes are the largest series of fresh water bodies in the world. They are used for a wide variety of purposes by the 37 million Americans and Canadians who live near the lakes and share this outstanding natural resource. We learn about the five Great Lakes in school—about their contribution to our country's history and the battles that were fought over them—but few Americans realize the importance of the lakes to our economy, recreation and well being.

The Great Lakes Basin has been inhabited for centuries—first by the Indians who revered "the big water" and later by the Europeans who explored and settled the region. The settling of the Great Lakes Basin has brought substantial changes in the lakes' ecology. The by-products of industry and the demands of densely populated cities have created unnatural effects on these magnificent water bodies. Activities such as intensive farming, urbanization, waste disposal, and transportation are a few of the main contributors to the pollution problems in the lakes.

Appreciating Your Great Lakes is intended to guide youth in acquiring training and field experience related to the Great Lakes, in areas such as ecology, marine careers, natural resources, economics, recreation, history, and culture. By providing youth with a greater awareness of the Great Lakes' opportunities and problems, we can foster a commitment to protecting and enhancing Great Lakes resources in the future.

This project guide for students in grades 6-12 suggests activities for learning about the Great Lakes and provides an extensive list of references and resources to use for further study. It must be emphasized that this is not a workbook or a teaching manual, but rather a resource guide for building a program to suit the students' particular interests.

The Great Lakes projects and activities described in this guide can be selected by 4-H youth leaders and members, or school teachers and students. It is suggested that "beginning level" activities be directed toward the 12-14 age group, "intermediate level" activities toward the 14-16 age group, and the "advanced level" activities toward the 16 and older age group.

Unit I. Recreation

Objectives

- To familiarize students and club members with various water-related recreational activities including boating, fishing, sailing, and other water sports on the Great Lakes.
- To create an awareness of water safety as required in all of these activities.

A. Boating

Beginning

- Learn characteristics and functions of different kinds of boats. Distinguish power from nonpower boats.
- Learn basic boating and water safety on the Great Lakes.

Intermediate

- Study the evolution (history, design) of a type of watercraft (such as a canoe) used on the Great Lakes.
- Design and build a functional model boat used on the Great Lakes.
- Ride in one of these canoes or other boats to study the function and operation of the watercraft.*
- Study water navigation rules and regulations on the Great Lakes.

Advanced

- Design and build a man-sized craft (canoe) used on the Great Lakes.
- Organize a canoe-heritage tour following the Great Lakes route of an Indian tribe.
- Use a canoe or other boat as a tool from which to study and gather forms of marine life.*

* Small boats (less than 20 ft.) including canoes can be dangerous on the Great Lakes because of large waves, sudden storms, and cold water. Extreme caution should be used when in small boats in open Great Lakes water.

B. Sportfishing

Beginning

- Learn to identify Great Lakes sportfish.
- Learn the roles of these fish in the food chain.
- Understand how one of these fish lives (its bioecology).
- Learn about conservation of these fish.
- Understand the basics of Great Lakes fishing.
- Learn safety while fishing in the Great Lakes.

Intermediate

- Develop an understanding of Great Lakes fish habitat.
- Recognize the value of Great Lakes fishing to recreation in your state.
- Learn fish printing.
- Learn Great Lakes fish rod building.
- Study how Great Lakes fish are used as food.

Advanced

- Study the principles of managing the Great Lakes sportfishery.
- Learn preparation and preservation techniques for these fish.
- Prepare a presentation to teach Great Lakes fishing techniques.

C. Sailing

Beginning

- Learn about parts of a sailboat.
- Learn the different types of sailboats (Look at size, number of sails, passenger load.)
- Read about the history of sailing on the Great Lakes.

Intermediate

- Study current usage of sailboats on the Great Lakes.
- Become familiar with sailing techniques on these Lakes.
- Learn sailing navigation rules and regulations on these Lakes.

Advanced

- Study the future of sailing on the Great Lakes.
- Design a blueprint for constructing a recreational sailboat.
- Construct a sailboat that is safe for use on the Great Lakes.
- Become involved in sport sailing on these Lakes.

D. Other Water Sports and Safety

Beginning

- Learn essentials of water safety.
- Become aware of other types of water sports that take place on the Great Lakes besides boating, sailing, and sportfishing.
- Discover why long exposure to Great Lakes water can cause hypothermia.

Intermediate

- Learn how swimming rules differ between a swimming pool, small inland lake, and one of the Great Lakes.
- Learn to snorkel.
- Understand why people are concerned about cold-water near drowning in these lakes.

Advanced

- Take a scuba diving course and learn scuba techniques used in the Great Lakes.
- Take a lifesaving course used for larger open lake beaches.
- Learn techniques to treat cold-water near drowning victims.
- Give a presentation on hypothermia prevention in water.

Unit II. Heritage

Objectives

- To understand and appreciate the cultural factors of the Great Lakes and their connecting waterways, which have contributed to our way of life.
- To gain knowledge of the historical factors, physical factors, and events important to the development of Great Lakes communities and cities.
- To help develop a sense of responsibility for the conservation and restoration of our Great Lakes heritage.

A. Our Great Lakes Heritage

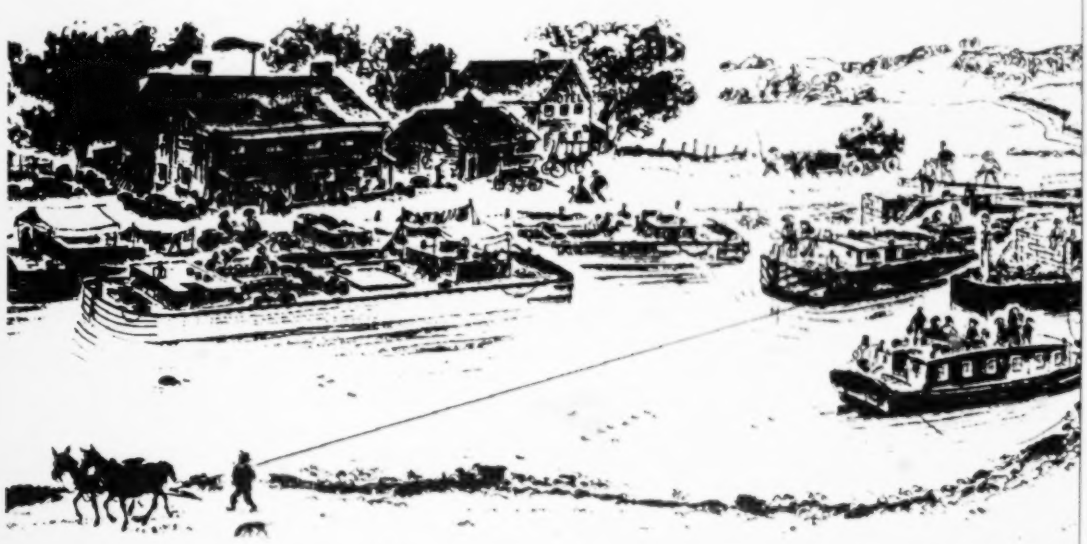
Beginning
- Find out about the heritage of your Great Lake from the time of the American Indians to the present.
- Learn about points of historical interest around your Lake.
- Read the writings of some of the early explorers of your Lake.
- Learn a folktale about your Lake.

Intermediate
- Study historic patterns of human migration to your Great Lake region.
- Study methods of transport used in the migration to your Lake.
- Explore the question: "How, why, and when did my family come here?"
- Learn about interstate and international laws affecting your Great Lake.
- Determine how water transportation affected the settlement of your Lake region.

Advanced
- Study folktales and songs of the people who have inhabited your Great Lake region in the past.
- Research and document local songs or feature stories about present inhabitants.
- Present or publish these songs or stories.
- Develop and present heritage projects to the community through news, photos, displays, speeches, or dialogues.
- Develop and present a program on the state, interstate, and international laws and treaties affecting your Great Lake.

B. The History of Canals in the Great Lake Region

Beginning
- Learn the purpose of building a canal.
- Find out when plans began for the earliest canals in the Great Lakes region.
- Find out how much it cost in the past to ride on a canal.
- Learn the advantages of a canal.



Intermediate

- Find out what traveling was like on a canal in the 1800s.
- Trace the construction period of one of the major canals, such as the Illinois and Michigan Canal, the Erie Canal, and the Wabash and Erie Canal.
- Discover how the length of transportation time on canals was reduced.
- Research newspaper articles from the 1800s describing the canal events taking place.
- Find out which canals are national historic landmarks in the Great Lakes region.

Advanced

- Visit a canal and examine the surrounding vegetation and wildlife to see how canals have changed the landscape.
- Present a demonstration on how a canal works.
- Find out what products were shipped on a canal in the 1800s.
- Compare the early canals with canals of today.
- Write or visit a historical society and obtain information about the early Great Lakes canals.

C. Arts and Crafts of the Great Lakes Region

Beginning

- Learn the purposes and origins of arts and crafts developed in the Great Lakes region.
- Learn American Indian arts and crafts, such as macrame and woodcarving.
- Study model shipbuilding to learn about ships of the Great Lakes past.
- Learn to distinguish art from craft.

Intermediate

- Make a fishing net using macrame.
- Carve a Great Lake duck decoy.
- Learn how to build to scale (model shipbuilding).
- Write a narrative or essay based on a Great Lake historical event.
- Paint or photograph an historic Great Lakes site or area.

Advanced

- Make a presentation about the arts and crafts related to your Great Lakes region.
- Learn how to prepare a documentary presentation on the heritage of your Lake.
- Prepare a pictorial exhibition on an historical Great Lakes theme.

D. Disasters of the Great Lakes

Beginning

- Study how storms develop on the Great Lakes.
- Learn about the major storms of your Lake.
- Distinguish between storm-related and other types of disasters that have affected the Great Lakes.
- Identify people and other resources to help document your Lake's disasters.

Intermediate

- Understand the difference between short-term (shipwreck) vs. long-term (ecological) disasters.
- Learn methods of keeping records about Great Lakes disasters.
- Develop accounts of some recent Great Lakes disasters.
- Obtain permission to see records and locate historical information on a Great Lakes disaster (e.g., shipwreck or flood).

Advanced

- Prepare a presentation on disasters of the Great Lakes.
- Show how study and research attempt to control and prevent the recurrence of disasters.

Unit III. Ecology

Objectives

- To learn about Great Lakes natural resources; how and why they exist; and how they interrelate with each other, the environment, and people.

- To learn how to protect and improve the Great Lakes environment through conservation and management, which will help foster a better quality of life for the people in surrounding communities.

A. Great Lakes Urban and Natural Ecology

Beginning

- Become aware of the watershed in your Great Lakes area.
- Learn to distinguish phytoplankton from zooplankton. Give a Great Lakes example of each.
- Learn what is meant by water quality control.
- Describe some examples of toxic pollutants.
- Find out about the many uses for water in your Great Lakes region.
- Determine what agencies assist in the management of water supplies in your area.
- Learn about shoreline erosion in your Lake region.

Intermediate

- Examine the importance of watersheds in Great Lakes management.
- Study the role of water in the Great Lakes food chain.
- Learn about some toxic pollutant issues in your Lake region.
- Identify examples of shoreline erosion in your Lake region.
- Survey Great Lakes water uses and needs in your community.
- Learn to test Great Lakes water and the environment for factors such as clarity, plankton, bottom temperature, flora and fauna, and pollutants.
- Learn about a city wastewater treatment plant.
- Examine the relationship between urbanization and Great Lakes flooding.

Advanced

- Construct a model of a Great Lakes watershed and discuss its importance to your community.
- Demonstrate water quality control, shoreline erosion, or the ecological impact of some aspects of urban waterfront development on your Great Lake.
- Using a team approach, do an ecosystem analysis of a waterfront that is being considered for a number of uses. Compare results of your analysis with your state's Department of Conservation or natural resources agency and the state or federal Environmental Protection Agency.
- Prepare an ecological analysis comparing water, plankton, and bottom samples of two locations on your Great Lake.

B. Wetlands

Beginning

- Learn the definition of a habitat.
- Understand what is meant by the term "wetlands."
- Become aware of what flora and fauna are found in wetlands associated with the Great Lakes.

Intermediate

- Identify and study different types of wetland habitats associated with the Great Lakes.
- Learn the value of a wetland to the community.
- Study how people have used, abused, and protected wetlands near your Lake.

Advanced

- Prepare a study of a Great Lakes wetland through a one-year cycle.
- Compare information from the study of two types of wetlands.
- Using biomass surveys, compare a wetland with another land type.
- Prepare an ecosystem analysis for a Great Lakes wetland, including the human impact.

C. Wildlife andWaterfowl

Beginning

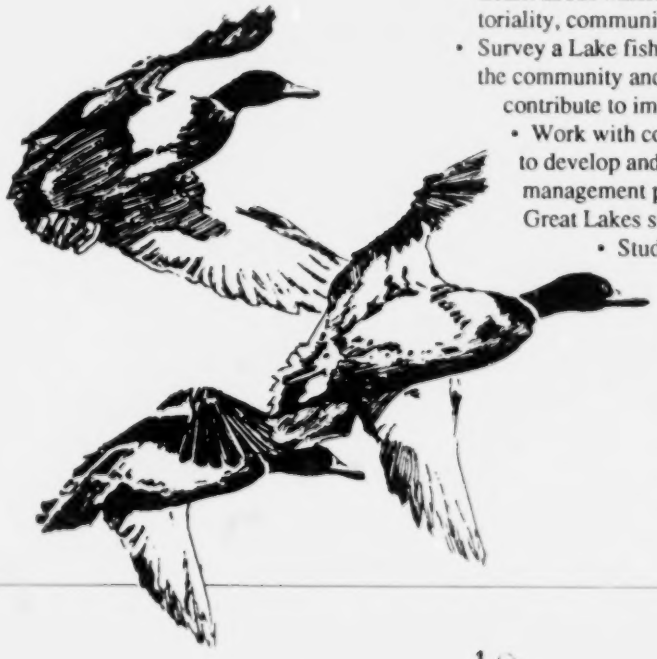
- Distinguish aquatic from terrestrial life around the Great Lakes.
- Learn about the various levels of a Great Lakes food chain.
- Become aware of our relationship to other forms of Great Lakes fish and wildlife.
- Learn to identify different animals, including waterfowl, by their different physical characteristics.
- Learn about the Great Lakes habitat of one of these fish, waterfowl, or other animals.

Intermediate

- Construct a hidden observation post or aquarium, and study feeding habits of Great Lakes fish and wildlife.
- Study the role of Great Lakes fish and wildlife in your community.
- Help to create or preserve a habitat for one species of Great Lakes wildlife by planting food patches, or constructing feeding stations, brush piles, or nest boxes.
- Study how change in one wildlife species affects the environmental community.

Advanced

- Identify and study five species of Great Lakes fish and wildlife.
- Study what attracts and what deters wildlife and fish from your Lake region.
- Learn about waterfowl behavior (e.g., territoriality, communication).
- Survey a Lake fish or wildlife resource in the community and describe how you can contribute to improving the resource.
- Work with community representatives to develop and implement a wildlife management plan for a designated Great Lakes site.
- Study and compare one species of fish, animal, or waterfowl in two different environments.



Unit IV. Economics

Objectives

- To create an awareness of water-related commerce in the Great Lakes region.
- To explain the important role canals played in the economic development of the Great Lakes area.
- To develop a knowledgeable understanding of the marine industry in the Great Lakes region.
- To identify careers in professional, technical, and business fields related to the Great Lakes.

A. Great Lakes Commerce

Beginning

- Learn about the St. Lawrence Seaway.
- Obtain a Great Lakes navigational chart and learn some of its symbols.
- Learn how to identify foreign ships.
- Learn about the major ports along your Lake.
- Study types of jobs related to Great Lakes commerce.

Intermediate

- Study the economic importance of Great Lakes commerce to your area.
- Examine how a Great Lakes tug fleet interacts with and depends on commerce.
- Explore a Great Lakes commerce career that interests you.

Advanced

- Visit agencies or businesses involved in Great Lakes commerce.
- Prepare a presentation on commercial ships and ports of your Lake.
- Give a presentation on the history of Great Lakes commerce and its impact on economic development in your community.
- Study elements of Great Lakes commerce from local, national, and international perspectives.

B. The Economic Importance of Canals

Beginning

- Learn about the economic importance of the Great Lakes canals in the early days.
- Discuss why both eastern merchants and midwestern farmers wanted canals.
- Find out what goods were shipped on canals.
- Determine how much it cost to build the major canals such as the Erie Canal, the Illinois and Michigan Canal, and the Wabash and Erie Canal.

Intermediate

- Discover why the Great Lakes canals became a major factor in the development of the northern Great Lakes states.
- Find out the economic impact of industrialization on canals.
- Become aware of the economic value of using the canal system versus other available transportation in the 1800s.
- Explain how canals helped the economic development of the United States.

Advanced

- Find out the employment benefits that came about when Great Lakes canals were being built.
- Describe the economic prices (the intermediate effect) on freight rates and the prices of goods with the opening of the canal.
- Discover why railroads played an important role in the decline of canals.
- Prepare a presentation on the economic impact of the Great Lakes canals in your area.
- Locate geographical maps from the 1800s and today; do a demonstration on the role canals played in urbanizing an area.

C. Commercial Fishing

Beginning

- Learn about commercial fishing in the Great Lakes.
- Study the history of commercial fishing on the Great Lakes.
- Become familiar with equipment used in commercial fishing.
- Compare supermarket prices of different Great Lakes fish.

Intermediate

- Study commercial fishing laws and regulations about your Great Lake.
- Learn about commercial fishery management techniques used for your Great Lake.
- Trace the food production cycle of commercially caught Great Lakes fish.
- Learn basic commercial fishing economics.
- Study the effect of Great Lakes chemical pollutants on the commercial fishing industry.
- Visit a local fishery.

Advanced

- Give a presentation demonstrating past and present commercial fishing techniques used in your Great Lake.
- Write a report on the economic importance of fish from the time of the early American Indians to the present.
- Prepare a presentation on chemicals in fish and their impact on the commercial fishing industry.
- Design a plan for the management of commercial fishing in your Great Lake.

D. Marine Industry

Beginning

- Learn what is meant by the term "marine industry."
- Become aware of how the marine industry affects life in your community.
- List what environmental problems are created by the Great Lakes marine industry.
- Name some types of commercial goods transported on the Great Lakes.
- Learn about shipbuilding and ship repair on the Great Lakes.

Intermediate

- Identify several types of Great Lakes marine industries.
- Prepare a map showing the location of marine industries in your community.
- Visit a Great Lakes marina.
- Have a speaker on Great Lakes water surface transport talk to your club or class.
- Compare the marine industry in your community with that of other major Great Lakes cities, with other American cities, or with cities in other countries.
- Identify agencies and laws that control the Great Lakes marine industry in your community or state.

Advanced

- Give a report on Great Lakes transportation of various commodities.
- Prepare a presentation showing the contribution of the Great Lakes marine industry to the total economy of your community and state.
- Compare the training and experience necessary to obtain marine-based jobs with that necessary for land-based jobs.

E. Recreational Economics

Beginning

- Learn about the waterfront recreational development in your Great Lakes community.
- Become aware of the economic importance of recreation to your Great Lakes area.
- Become familiar with recreational opportunities available in your area in the past and present.
- Find out about plans for future recreation developments in your Great Lakes area (this includes economic incentives for recreational types of development).

Intermediate

- Examine a map of your community and determine how much Great Lakes waterfront is available for recreational use.
- Study the waterfront recreational development plans for your Great Lakes community.
- Compare the waterfront recreational development in your community with that of other communities.
- Become familiar with laws and regulations governing Great Lakes waterfront recreation.
- Study efforts to preserve natural resources as part of this waterfront recreation.

Advanced

- Prepare a presentation that provides an overview of waterfront recreational development in your Great Lakes community.
- Conduct a survey that will help you determine who uses your Great Lake waterfront for recreation, and what types of recreation are most popular.
- Prepare a waterfront recreational development plan for your Great Lakes community.
- Participate in your community's government program for Great Lakes waterfront recreational development.

HOW TO USE THE REFERENCE SECTION

The appendix is divided into four reference categories—audiovisuals, maps and charts, computer software, and publications. The reference categories are subdivided into the units (I, II, III, IV) and subheadings (A, B, C, D, E) presented earlier in the activity section of this guide. For example, a book about boating as a recreational activity will be listed in the publications section under the heading *IA. Boating*.

Reference citations are listed in alphabetical order under each subheading in the four unit sections. The citations will assist you in determining which resource pertains to your chosen activity. Each entry is presented as follows:

Title
Author/editor
Date Format description Cost (if known)
Brief abstract
Source

Some references are more technical than others because this guide is written for students in grades 6-12. Additional citations are also included in the reference section that do not directly apply to the activities described on pages 2-10. This was done to aid teachers in developing original activities geared to specific students' skill levels.

Because of the large numbers of Sea Grant publications included in this appendix, the addresses of each Sea Grant Program have been provided on a separate page rather than repeatedly including them in each entry.

When a reference applies to more than one topic area, it will appear in all relevant areas. However, only the first listing will contain the complete information. Any subsequent listing will simply state the title and refer the reader to the relevant unit and subheading to locate the complete citation. When you are referred to another section you might want to check other citations in that section for additional information pertaining to your selected activity.

Because references are often updated, it is advisable to contact the source to see if more current information has been developed. You might also find that additional related resources (e.g., videotapes, software, less technical references) have been developed to supplement an existing reference. It is advisable to contact your state's Sea Grant Program for its latest publications guide or reference listings. Note that pricing information may have changed since the printing of this guide.

Since many of these citations were collected from other resource/reference listings, some information may be incomplete. If you have trouble locating any of the references, please contact Christine Pennisi, Marine Extension adviser, Illinois-Indiana Sea Grant Program, 4200 W. Euclid Avenue, Rolling Meadows, IL 60008; Phone: 312/991-1160.

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IA. Boating

Mariner Reports for Safety at Sea
By: National Weather Service (NWS)
1987 VHS videotape 10 min.
Free (on loan)
Explains how recreational boaters are trained to observe and report weather information that can assist the NWS and fellow boaters.
Obtain from: Your nearest Sea Grant office—see address list.

IB. Sportfishing

Salmon Story
1976 16mm Film 28 min.
Recounts the effects of salmon on Great Lakes communities from prehistoric times to present.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

The Trouble with Toxics
By: Michiagn Sea Grant College Program
1987 VHS videotape 30 min.
3/4 inch: $75.00 1/2 inch: $35.00
Illustrates the challenge of dealing with the hundreds of contaminants in the Great Lakes, including their effects on Great Lakes fish.
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

IC. Sailing

Sailing...Do It Right...Keep It Safe
By: Modern Talking Pictures Service, Inc.
28 min.
Reviews terms, techniques and equipment for sailing.
Obtain from: Modern Talking Pictures Service, Inc., 2323 New Hyde Park Rd., New Hyde Park, NY 11040.

This is Sailing #1: Introduction to a Boat
By: University of Wisconsin Extension
1974 20 min.
Identifies parts of a sailboat the rigging process and landing.
Obtain from: University of Wisconsin Extension, 1327 University Ave., PO Box 2093, Madison, WI 53701.

This is Sailing #2: First Essential Skills
By: University of Wisconsin Extension
1974 20 min.
Diagrams how wind causes a sailboat to move at various angles; demonstrates tacking and jibbing; and covers sail trim, hull balance, mooring and landing.
Obtain from: University of Wisconsin Extension, 1327 University Ave., PO Box 2093, Madison, WI 53701.

This is Sailing #3: More Advanced Techniques
By: University of Wisconsin Extension
1974 20 min.
Explains reef sailing and sailing on the jib alone under severe weather conditions using sailboats 47 feet and larger. Also discusses capsizing, recovery, and beaching.
Obtain from: University of Wisconsin Extension, 1327 University Ave., PO Box 2093, Madison, WI 53701.

ID. Other Water Sports and Safety

American Red Cross Film List
A comprehensive list of water safety and small craft handling films.
Obtain from: Mid-American Chapter, American Red Cross, 43 E. Ohio St., Chicago, IL 60611; (312)440-2038.

Drown Proofing
30 min.
Shows how to stay afloat and travel in water even if you have learned to swim.
Obtain from: University of Wisconsin Extension, 1327 University Ave., PO Box 2093, Madison, WI 53701.

Hypothermia: The Cold Facts
1987 VHS, BETA, and 3/4 inch tape
30 min. $60.00 to purchase, $30.00 to rent
Covers current research on hypothermia; how to prevent it; and how to survive in cold water.
Obtain from. Minnesota Sea Grant Program—see address list.

Water: Friend or Foe?
1973 23 min.
Dramatizes a variety of still and moving water situations illustrating the importance of practicing basic safety rules to avoid accidents. Includes water rescue techniques.
Obtain from: University of Wisconsin Extension, 1327 University Ave., PO Box 2093, Madison, WI 53701.

Waterproof Your Family
By: Michigan Sea Grant and Dive Rescue Inc. Intl.
1987 VHS-75 min. Slide tape show-20 min.
Also includes 28-page instructor's guide, handouts, and posters. $249.95

Complete community education program focuses on drowning survival skills for all ages.
Obtain from: Dive Rescue Inc. International, 2619 Canton Court, Fort Collins, CO 80525; (303)482-0887.

What You Can Do for Cold Water Near Drowning
By: Dive Rescue, Inc. International
1979 Slide/tape 20 min. $49.95

Explains what happens to the body in cold water that aids survival. It emphasizes the rescue technique of CPR.
Obtain from: Dive Rescue Inc./International, 2619 Canton Court, Fort Collins, CO 80525; (303)482-0887.

IIA. Our Great Lakes Heritage

Great Lakes Connection, The
By: U.S. Army Corps of Engineers
1978 20 min.

Obtain from: Modern Talking Pictures Service, Inc., 2323 New Hyde Park, NY 11040.

Greatest Lakes, The
1984 VHS, BETA, 3/4 inch, and 16 mm.
28 min.

Presents the story of how the U.S. and Canada have begun to manage the Great Lakes on an ecosystem basis restoring the fisheries and water quality.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Lake Superior: The Region 'Till Now
1973 29 min.

Obtain from: University of Wisconsin, Institute of Environmental Studies, 550 N. Park St., Madison, WI 53706.

Paddle-to-the Sea
1967 28 min.

About a little boat carved and launched on the Canadian side of Lake Superior and its journey to the Atlantic Ocean. Best for early junior high students.
Obtain from: National Film Board of Canada, 1251 Ave. of the Americas, New York, NY 10200.

Rise and Fall of the Great Lakes, The
1968 17 min.

Description of the physical changes the lakes have undergone from the glacial age to the present. Fast-paced, humorous animated and factual.
Obtain from: National Film Board of Canada, 1251 Ave. of the Americas, New York, NY 10200.

Superior Today
By: WNMU-TV and Michigan Sea Grant
1985 Videocassette 30 min. $25

Award-winning documentary explores Lake Superior's formation, history, climate, creatures and issues related to the lake.
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039 or WNMU-TV, Northern Michigan University, Marquette, MI 49855; (906)227-1300.

Warnings on the Wind
By: The Center for Environmental Study
Videotape 28 mins. Rental copy $10, Purchase $40

Explores the sources, pathways, and fates of airborne toxics in the Great Lakes, the "new frontier" of environmental concern.
Obtain from: The Center for Environmental Study, Room 70M, 143 Bostwick, NE, Grand Rapids, MI 49503.

IIB. Wetlands

Canals—Towpaths West
1963 Accession #60499 17 min.

This part of the Pioneer Life Series outlines the development of a canal network to supplement existing rivers and highways.
Obtain from: University of Illinois Film Center, 1325 South Oak St., Champaign, IL 61820; (217)333-1360.

Canals West: The Story of the Development of the American Canal System in the 19th Century
1967 Accession #51487 16 min.

Uses authentic photos, artwork, maps and present day scenes to describe the great canal era in the United States.
Obtain from: University of Illinois Film Center, 1325 South Oak St., Champaign, IL 61820; (217)333-1360.

IIC. Arts and Crafts of the Great Lakes

The Great Lakes Connection
See IIA. Our Great Lakes Heritage.

IID. Disasters of the Great Lakes

The NEPCO 140 Incident
1980 30 min.
Shows how a tank barge came up the St. Lawrence River and grounded in an environmentally sensitive area around the Thousand Islands.
Obtain from: U.S. Coast Guard, 9th District, 1240 East Ninth St., Cleveland, OH 44199.

IIIA. Great Lakes Urban and Natural Ecology

Cancer in Fish and Birds
1985 VHS videotape 20 min.
For Cable News Network, Atlanta.
Obtain from: Michigan Department of Natural Resources, PO Box 30028, Lansing, MI 48909.

Coastal Erosion and Real Property Values
By: Chuck O'Neill
1984 Slide program 20 min.
Obtain from: New York Sea Grant Institute—see address list.

Evaluating your Coastal Property
By: University of Wisconsin Sea Grant Institute
1988 VHS or Beta 18 min. $15.50(Free loan copy available)
A self-teaching tool for individuals who wish to assess the likely risks of shore erosion to their coastal property.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Great Clean-Up, The
By: U.S. Environmental Protection Agency and Environment Canada
1976 54 min.
Results of a joint agreement between the U.S. and Canada to clean up the Great Lakes. Includes a brief history of the events leading up to this agreement and a background of Great Lakes environs.
Obtain from: Modern Talking Pictures, 1687 Elmhurst Rd, Elk Grove Village, IL 60007; (312)593-3250.

Greatest Lakes, The
See IIA. Our Great Lakes Heritage.

Into the Depths - The New Explorer Series
By: Bill Curtis, et al.
1987 VHS videotape 30 min. Free
This part of the New Explorer Series finds Bill Curtis on board a research submarine in Lake Superior where he learns scientists' findings about pollution and other topics.
Obtain from: WBBM-TV, Communication Department, 630 N. McClurg Ct., Chicago, IL 60611.

Lake Superior: The Region 'till Now
See IIA. Our Great Lakes Heritage.

Rise and Fall of the Great Lakes, The
See IIA. Our Great Lakes Heritage.

Superior Today
See IIA. Our Great Lakes Heritage.

The Trouble with Toxics.
See IB. Sportfishing.

Water-Related Teaching Activities
1977 149 pp. $8.00
Teaches students about water resources. Includes a reference list of available films on water resources and water equipment.
Obtain from: ERIC Clearinghouse, College of Education, The Ohio State University, 1200 Chambers Rd., Columbus OH 43212.

IIIB. Wetlands

America's Wetlands
1981 25 min.
Obtain from: U.S. Fish and Wildlife Service, Federal Building, Fort Snelling, Twin Cities, MN 55111; or Illinois-Indiana Sea Grant Program—see address list.

Birds of Marshes
11 min.
Provides glimpses of some common marsh birds in their natural surroundings. Shows how they nest, gather food and adapt to their environment.
Obtain from: University of Wisconsin Extension, 1327 University Avenue, PO Box 2093, Madison, WI 53701.

Cry of the Marsh
1970 13 min.
Portrayal of bird, animal and plant life in unspoiled marshes and the effects on nature as humankind transforms these areas for other uses.
Obtain from: University of Wisconsin Extension, 1327 University Avenue, PO Box 2093, Madison, WI 53701.

IIIC. Wildlife and Waterfowl

Birds That Migrate
1965 16 min.
Shows migratory habits of different species, especially the blue-wing teal.
Obtain from: University of Wisconsin Extension, 1327 University Ave, PO Box 2093, Madison, WI 53701.

Cancer in Fish and Birds
See IIIA. Great Lakes Urban and Natural Ecology.

Great Lakes Connection, The
See IIA. Our Great Lakes Heritage.

Superior Today
See IIA. Our Great Lakes Heritage.

IVA. Great Lakes Commerce

Ever Open Waters
25 min.
Explains the importance of waterway navigation to the nation's economy and defense.
Obtain from: Modern Talking Pictures Service, Inc., 2323 New Hyde Park Road, New Hyde Park, NY 11040.

Great Lakes Connection, The
See IIA. Our Great Lakes Heritage.

Great Lakes: North America's Inland Seas
1971 17 min.
Describes the types of shipping done on the Great Lakes. Shows what commercial activities in the region are served by the Great Lakes.
Obtain from: University of Wisconsin Extension, 1327 University Avenue, PO Box 2093, Madison WI 53701.

Greatest Lakes, The
See IIA. Our Great Lakes Heritage.

Superior Today
See IIA. Our Great Lakes Heritage.

IVC. Commercial Fishing

Lay Down Your Nets
1977 28 min.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

The Last Fisherman
1975 28 min.
Depicts the Great Lakes commercial fishermen past, present and future, and the business problems they face both on and off the lake.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

The Trouble With Toxics
See IB. Sportfishing.

IVE. Recreation Economics

Greatest Lakes, The
See IIA. Our Great Lakes Heritage.

Superior Today
See IIA. Our Great Lakes Heritage.

IA. Boating

Boatmen Have Fun Afloat—But...
Poster 1025.
Obtain from: Mid America Chapter, American Red Cross, 43 E. Ohio, Chicago, IL 60611.

Chicago and South Shore of Lake Michigan
Map no. 14926
A book of small-craft charts.
Obtain from: NOAA, Distribution Division (C44), National Oceanic Survey 6501 LaFayette Ave., Riverdale, MD 20737 or your local boating store.

Chicago Harbor
Map no. 14928.
Obtain from: NOAA, Distribution Division (C44), National Oceanic Survey, 6501 LaFayette Ave., Riverdale, MD 20737 or your local boating store.

Chicago Lake Front... Wilmette to Gary Harbor
Map no. 14927.
Obtain from: NOAA, Distribution Division (C44), National Oceanic Survey, 6501 LaFayette Ave., Riverdale, MD 20737 or your local boating store.

Look Out for Fishing Gear
1980
Illustrations and descriptions of different types of commercial gear, nets and traps.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Nautical Charts
Nautical Chart Catalogue #4.
Includes 4 types—Harbor, Coast, General, and Sailing.
Obtain from: NOAA, Distribution Division (C44), National Oceanic Survey, 6501 LaFayette Ave., Riverdale, MD 20737 or your local boating store. Also available in some marinas, sporting goods stores and bookstores.

Navigation Notices
By: US Army Corps of Engineers, Chicago District
Periodically 2-4 pp. Free
Shows where navigational hazards or corrections are occurring.
Obtain from: U.S. Army Corp of Engineering, Chicago District, 219 South Dearborn St., Chicago, IL 60604-1797.

Waukegan to South Haven: Michigan City, Burns Waterway Harbor, New Buffalo
Map
Obtain from: NOAA Distribution Division (C44), National Oceanic Survey, 6501 LaFayette Ave., Riverdale, MD 20737 or your local boating store.

IB. Sportfishing

Atlas of the Spawning and Nursery Areas of Great Lakes Fishes
1982
Obtain from: U.S. Fish and Wildlife Service, Office of Biological Services, Washington, DC. 20240.

Fish Spawning Grounds in Wisconsin Waters of the Great Lakes
By: Catherine E. Corberly, et al.
1980 42 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Guide to Fishing Reefs in Western Lake Erie
1989 $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Look Out for Fishing Gear
See IA. Boating.

Nautical Charts
See IA. Boating.

Restoring Lake Michigan's Ecosystem
By: Lake Michigan Federation
1987 Two-sided poster 34x24 inches
Shows the "areas of concern" for toxic pollution around Lake Michigan and indicates the fish found in these areas, which may be contaminated.
Obtain from: Lake Michigan Federation, 8 S. Michigan Ave., #2010, Chicago, IL 60603.

IC. Sailing

Chicago and South Shore of Lake Michigan
See IA. Boating.

Chicago Harbor
See IA. Boating.

Chicago Lake Front...Wilmette to Gary Harbor
See IA. Boating.

Look Out for Fishing Gear
See IA. Boating.

Nautical Charts
See IA. Boating.

Waukegan to South Haven: Michigan City, Burns Waterway Harbor, New Buffalo
See IA. Boating.

ID. Other Water Sports and Safety

You Can Help Even If You Can't Swim
Poster 1024 Free
Obtain from: Mid-America Chapter, American Red Cross, 43 E. Ohio, Chicago, IL 60611.

IIA. Our Great Lakes Heritage

Atlas of Great Lakes Indian History
By: Hellen Hornbeck Tanner
1986 232 pp. $57.50
Thirty-three highly detailed maps and text demonstrate the massive displacement of native communities from 1640 to 1871. Also contains 74 illustrations.
Obtain from: Lake Michigan region libraries, bookstores or University of Oklahoma Press, 1005 Asp Ave., Norman, OK 73019.

Chicago Area in 1821
23 x 29 inches
Obtain from: The Field Museum of Natural History, (Harris Extension), Roosevelt Rd. at Lake Shore Dr., Chicago IL 60605.

Great Lakes—An Environmental Atlas and Resource Book, The
By: US Environmental Protection Agency, et al.
1987 44 pp. 37 x 49 inches
A vividly colorful reference intended for both classroom and general public that explains, using narrative and maps, the Great Lakes' physical environment and associated human activities.
Obtain from: Great Lakes National Program Office, USEPA, 230 S. Dearborn St., Chicago, IL 60604.

Land of the Inland Seas: the Historic and Beautiful Great Lakes Country
By: William D. Ellis
1974
Covers the retreat of the Wisconsin glacier 15,000 years ago to building of the Minnesota's Experimental City. Good source of illustrations, charts and maps.
Obtain from: American West Publishers, Palo Alto, CA, or a local library.

Lights of the Lakes
By: Michigan Department of Natural Resources
Poster
Obtain from: Coastal Management Program, Division of Land Resources Program, Michigan Department of Natural Resources, PO Box 30028, Lansing, MI 48909.

IIB. The History of Canals in the Midwest

U. S. Geological Survey Maps
Quadrangles are periodically updated
21.5 x 26.5 inches
Obtain from: U.S. Geological Survey, Map Sales Section, Division of Water, Rm. 604, State Office Building, Indianapolis, IN 46204.

IIIA. Great Lakes Urban and Natural Ecology

Boundary/Unit Map of the Indiana Dunes National Lakeshore—Lake, Porter and La Porte Counties
1977
33.5 x 70.5 inches and 18 x 34 inches editions available.
Obtain from: Indiana Dunes National Lakeshore, 110 N. Mineral Springs Rd., Porter, IN 46304; (219)926-7561.

Coastal Atlas Appendix of Detailed Maps
By: Illinois Geological Survey
1976 17 x 11 inches
Obtain from: Christine Pennisi, Illinois-Indiana Sea Grant, 4200 N. Euclid Avenue, Rolling Meadows, IL 60008; (312)991-1160.

Drainage Areas of Indiana Streams
Obtain from: Map Sales Section, Division of Water, Rm. 604, State Office Building, Indianapolis, IN 46204.

Flood Plain Management
Obtain from: Map Sales Section, Division of Water, Rm. 604, State Office Building, Indianapolis, IN 46204.

Geological Map of the 1° by 2° Chicago Quadrangle, Indiana, Illinois and Michigan showing bedrock and unconsolidated deposits
By: A. F. Schneider, et al.
1970 37 x 67 inches
Obtain from: Indiana Geological Survey, 611 N. Walnut Grove, Bloomington, IN 47405.

Great Lakes-An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Great Lakes Toxic Hotspots
By: Pollution Probe Foundation
1987
Shows 343 sites where discharges are exceeding permit levels. Includes the 18 areas of concern.
Obtain from: Pollution Probe Foundation, 12 Madison Ave., Toronto, ON M5R 2S1; (416)926-1907.

Great Lakes Water Use Map
Obtain from: Canada Map Office; Survey and Mapping Branch; Energy, Mines and Resources; Ottawa, Ontario, Canada.

Hydrograph of Monthly Mean Levels of the Great Lakes
By: National Oceanic and Atmospheric Administration
Update Periodically 20 x 38 inches Free
This chart for all the Great Lakes graphically shows lake levels from 1900 to the current year. Has room to keep track of future levels from a monthly bulletin up to the year 2019.
Obtain from: Your nearest U.S. Army Corps of Engineers office.

Hydrology and Hydraulics in Indiana
Obtain from: Map Sales Section, Division of Water, Rm. 604, State Office Building, Indianapolis, IN 46204.

Indiana Dunes National Lakeshore, Indiana
Brochure
1985 15.5 x 16.5 inches
Obtain from: Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304; (219)926-7561.

Introduction to Michigan's Water Resources
By: Institute of Water Research
1987 64 pp. $4.95
Contains 16 color maps and 35 graphs, photos and illustrations that help the reader to understand the vast amount of Michigan's water resources and their need to be carefully managed.
Obtain from: Michigan State University, 334 Natural Resources Bldg., East Lansing, MI 48824; (517)353-3742.

Lake Michigan - Huron Annual Precipitation Differences from Long Term Mean (1900 - Present)
By: Holly Hartman
Ongoing 21 x 16 inches Free
This computer generated graph is good for comparison with the lake level chart since precipitation is the major cause of lake level change.
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105.

Lake Ontario Atlas: Chemistry
By: Eric Raymond Allen
1977 191 pp.
Obtain from: New York Sea Grant Institute—see address list.

Lake Ontario Atlas: Climatology
By: Bruce H. Bailey, et al.
1977 63 pp.
Obtain from: New York Sea Grant Institute—see address list.

Lake Ontario Atlas: Lake Temperatures
By: Eugene E. Chermack
1977 41 pp.
Obtain from: New York Sea Grant Institute—see address list.

Lake Ontario Atlas: Land Use
By: Michael Dobson, et al.
1976 52 pp.
Obtain from: New York Sea Grant Institute—see address list.

Lake Ontario Atlas: Surface Waves
By: Glenn Evans Myer
1976 107 pp.
Temporal and spatial water level changes in Lake Ontario.
Obtain from: New York Sea Grant Institute—see address list.

Lake Ontario Environmental Atlas
By: Ronald Stewart, et al.
1975 3 pp.
Obtain from: New York Sea Grant Institute—see address list.

Map of Sturgeon Bay; Experimental Satellite Map
By: Thomas M. Lillesand, et al.
1985 LANDSAT Thermatic Map Free
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Restoring Lake Michigan's Ecosystem
See IB. Sportfishing.

Satellite Image Map of Northeastern Illinois
By: Illinois State Geological Survey
1985 34 x 24 inches $5.00
Also interprets many geological and land-use features.
Obtain from: Illinois State Geological Survey, Natural Resources Building, 615 E. Peabody Dr., Champaign, IL 61820, Attn: Order Department.

U.S. Geological Survey Maps
See IIB. The History of Canals in the Midwest.

IIIB. Wetlands

Atlas of the Spawning and Nursery Areas of Great Lakes Fishes
See IB. Sportfishing.

Boundary/Unit Map of the Indiana Dunes National Lakeshore—Lake, La Porte, Porter Counties
See IIIA. Great Lakes Urban and Natural Ecology.

Chicago Area in 1821
See IIA. Our Great Lakes Heritage.

Cook County Forest Preserve District Picnic Areas and Trails
By: Cook County Forest Preserve District
1983 Approximately 20 x 18 inches
User can obtain one or all four of the individual maps which divide the forest preserve district into four sections.
Obtain from: General Headquarters, Cook County Forest Preserve District, 536 N. Harlem Ave., River Forest, IL 60305; (312)261-8400 (city) or 366-9420 (suburban).

Geological Map of the 1° x 2° Chicago Quadrangle, Indiana, Illinois, and Michigan showing bedrock and unconsolidated deposits.
See IIIA. Great Lakes Urban and Natural Ecology.

Guide to Great Lakes Natural Heritage, A
By: Federation of Ontario Naturalists
1987 Illustrated Map
Highlighted are the Lake's special habitats, wildlife and ecological points of interest.
Obtain from: Federation of Ontario Naturalists, Conservation Centre, Moatfield Park, 355 Less Mill Rd., Don Mills, M3B 2W8, Ontario, Canada.

Indiana Dunes National Lakeshore, Indiana
Brochure
See IIIA. Great Lakes Urban and Natural Ecology.

Lake Ontario Atlas: Land Use
See IIIA. Great Lakes Urban and Natural Ecology.

Northeastern Illinois Series of Wetland Maps
By: Illinois Department of Conservation
1987 $10.00
Includes two paper or mylar county maps showing wetland locations. These are the most detailed and accurate wetland maps available locally.
Obtain from: Northern Illinois University Center, for Governmental Studies, DeKalb, IL 60115.

Satellite Image Map of Northeastern Illinois
See IIIA. Great Lakes Heritage.

Soil Survey of DuPage County and part of Cook County, Illinois
By: D. R. Mapes
1976 126 maps in 217 pp.
Obtain from: U. S. Department of Agriculture, Soil Conservation Service (contact your local office).

U.S. Geological Survey Maps
See IIB. The History of Canals in the Midwest.

IIIC. Wildlife and Waterfowl

Atlas of the Spawning and Nursery Areas of Great Lakes Fishes
See IB. Sportfishing.

Guide to Great Lakes Natural Heritage, A
See IIIB. Wetlands.

IVA. Great Lakes Commerce

Chicago and South Shore of Lake Michigan
See IA. Boating.

Chicago Harbor
See IA. Boating.

Chicago Lake Front...Wilmette to Gary Harbor
See IA. Boating.

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

How Do People Use Lighthouses and Navigational Charts? A Marine Education Infusion Unit
By: John Butzow, et al.
1980
Familiarizes students with navigational aids used to warn against danger and help the mariner locate positions.
Obtain from: University of Maine Sea Grant College Program—see address list.

Nautical Charts
See IA. Boating.

Sail the Seaway and Save: Your Graphic Guide to the World's Fastest Trade Route—the St. Lawrence Seaway
1974

Contains information on Great Lakes ports, cargo imports and exports, toll and ship requirements, foreign countries and ports of call, sailing distances to 41 overseas destinations and more.
Obtain from: U.S. Department of Transportation, 800 Independence Avenue, Washington, D. C. 20591.

Waukegan to South Haven: Michigan City, Burns Waterway Harbor, New Buffalo
See IA. Boating.

IVC. Commercial Fishing

Atlas of the Spawning and Nursery Areas of Great Lakes Fishes
See IB. Sportfishing.

The Great Lakes - An Environmental Atlas and Resource Book
See IIA. Our Great Lakes Heritage.

IVD. Marine Industry

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Lake Ontario Atlas: Land Use
See IIIA. Great Lakes Urban and Natural Ecology.

Satellite Image Map of Northeastern Illinois
See IIIA. Great Lakes Urban and Natural Ecology.

IVE. Recreation Economics

Boundary/Unit Map of the Indiana Dunes National Lakeshore—Lake, La Porte, and Porter Counties
See IIIA. Great Lakes Urban and Natural Ecology.

Chicago and South Shore of Lake Michigan
See IA. Boating.

Chicago Harbor
See IA. Boating.

Chicago Lake Front—Wilmette to Gary Harbor
See IA. Boating.

Chicago Park District Lake Shore Protection Work Map of Shoreline, Bulkhead Types
1944 18 x 102 inches

Obtain from: Chicago Park District, 425 E. McFetridge Dr., Chicago, IL 60605; (312)294-4610.

Duneland Country - A Visitors Guide to Northwest Indiana
By: Northwest Indiana Tourism Council
1987 21.5 x 26 inches Free

Recreational facilities and tourist information are listed on the back of the map.
Obtain from: Northwest Indiana Tourism Council, 528 Indian Oak Mall, Chesterton, IN 46304.

Great Lakes—Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Illinois Beach State Park - Interpretive Trail System
By: Illinois Beach Interpretive Staff
1985 8.5 x 14 inches Free

Answers some of the common questions hikers have about the dunes and its wildlife.
Obtain from: Illinois Beach State Park, Zion, IL 60099; (312)662-4811.

Indiana Dunes National Lakeshore, Indiana
Brochure
See IIIA. Great Lakes Urban and Natural Ecology.

Indiana Dunes State Park
By: Park Staff
1987 8.5 x 14 inches Free

Shows trails and natural features of the park. Back of the map includes additional information about the park.
Obtain from: Indiana Dunes State Park, 1600 N. 25 E., Chesterton, IN 46304; (219)926-4520.

Lake Ontario Atlas, Land Use
See IIIA. Great Lakes Urban and Natural Ecology.

Map of Lake County, Illinois
By: Economic Development Commission
1987 Colorful 3-dimensional map
17 x 22 inches Free

Shows major industries and recreational facilities in Lake County, Illinois.
Obtain from: Economic Development Commission, 18 N. County St., Waukegan, IL 60085; (312)360-6350.

Nautical Charts
See IA. Boating.

Waukegan to South Haven: Michigan City, Burns Waterway Harbor
See IA. Boating.

IA. Boating

LORAN Best Buy
By: Jeff Stander, et al.
1983 Calculator, Micro
Obtain from: Oregon Sea Grant College Program—see address list.

IB. Sportfishing

Bibliography of Wisconsin Sea Grant's Fisheries and Seafood Materials
By: Al Miller
1985 Appleworks wordprocessor
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Breakeven Analysis for Fish Boat
By: Jeff Stander, et al.
1983 Calculator, Micro
Obtain from: Oregon Sea Grant College Program—see address list.

Charter and Sport Fisher Profile
By: Al Miller
1985 Appleworks Database
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Computerized Key to the Families of Freshwater Fishes, A
By: George Spangler
1985 Applesoft Basic Nominal fee
A key to the 28 families of freshwater fishes for use on an Apple II. Includes some graphics and a glossary of terms.
Obtain from: Minnesota Sea Grant Program—see address list.

FINMAN: A Fisheries Institution Management-training Simulation Model. Model Description and Operations Manual
By: Jerald S. Ault, et al.
1986
This microcomputer-based program explains how the fisheries management process works depending on fishery types and regulations. Manual available.
Obtain from: Florida Sea Grant College Program—see address list.

The Lake Trout Rehabilitation Model: Program Documentation
By: C.J. Walters, et al.
1986 Special Publication No. 86-1.
The computer simulation model, written in Applesoft BASIC, is available on a 5 1/4" floppy disk.
Obtain from: Great Lakes Fishery Commission, 1451 Green Rd., Ann Arbor, MI 48105.

IIA. Our Great Lakes Heritage

Applications of Microcomputers in Marine and Aquatic Education
By: Melissa Conrath, et al.
1984 RS-039
Explains how microcomputers can be used in teaching about the Great Lakes.
Obtain from: Ohio Sea Grant College Program—see address list.

River Trek
By: R. Eddy, et al.
1987 EP-026 Apple computer program Teacher guide (10 pp.) and student workbook (7 pp.)
$7.00
A computer simulation of a flatboat trip down the Ohio River in 1791. River Trek cannot be done as an activity without the computer program.
Obtain from: Ohio Sea Grant College Program—see address list.

IID. Disasters of the Great Lakes

Computer Animation of Storm Surge Predictions
By: Charles M. Libicki, et al.
1985 RS-053 16 pp. Free
Shows how the computer can be used to reliably and quickly predict nature's greatest cause of erosion, storm surges.
Obtain from: Ohio Sea Grant College Program—see address list.

IIIA. Great Lakes Urban and Natural Ecology

Coastal Erosion Management Option Analysis
By: Steve Stewart
1985 Perfect Calc Spreadsheet/V1.15, MS-DOS
Obtain from: Steve Stewart, Cooperative Extension Service, County Building, 11th Floor, Mount Clemens, MI 48043.

Computer Program for the Graphic Display and Quantitative Evaluation of Beach Profile Data, A
By: C. F. Chamberlain, et al.
1980 9 pp.
Obtain from: University of Georgia Sea Grant College Program—see address list.

Interactive BASIC Program to Calculate Shallow-Water Limited-Fetch Wave Conditions, An
By: J. Richard Weggel, et al.
1985 16 pp.
Obtain from: New Jersey Sea Grant Extension Service—see address list.

Precision Bathymetry and Navigation for Site Selection, Dredge Disposal Management, and Long-Term Surveillance of Disposal Sites
By: Lance Stewart
1983 Basic
Obtain from: Louisiana Sea Grant College Program—see address list.

User's Guide to the Littoral Environment Observation (LEO) Retrieval System, A
By: Ann R. Sherlock, et al.
1987
Obtain from: Corps of Engineers, Waterways Experiment Station, PO Box 631, Vicksburg, MS 39180-0631; (601)634-2571.

Viewing New York's Coast: Resources, Research Issues, and Preview - A Computer Modeling Technique
By: John P. Fellemen
1980 NYSGI-U-80-001, pp. 29-33
Obtain from: New York Sea Grant Institute—see address list.

IIIB. Wetlands

A Computerized Key to the Families of Freshwater Fishes
See IB. Sportfishing.

IIIC. Wildlife And Waterfowl

A Computerized Key to the Families of Freshwater Fishes
See IB. Sportfishing.

FINMAN: A Fisheries Institution Management training Simulation Model. Model Description and Operations Manual
See IB. Sportfishing.

Lake Trout Rehabilitation Model: Program Documentation, The
See IB. Sportfishing.

IVC. Commercial Fishing

Breakeven Analysis for Fish Boat
See IB. Sportfishing.

Computerized Key to the Families of Freshwater Fishes, A
See IB. Sportfishing.

FINMAN: A Fisheries Institution Management training Simulation Model. Model Description and Operations Manual
See IB. Sportfishing.

Fish Processing Operating Decision—Buy/Sell
By: Jeff Stander, et al.
1983 Calculator, Micro.
Obtain from: Oregon Sea Grant College Program—see address list.

The Lake Trout Rehabilitation Model: Program Documentation
See IB. Sportfishing.

IVD. Marine Industry

Catfish Growth Simulation-GROWCATS
IBM: MSDOS, TRS-80: TRSDOS
Obtain from: Mississippi-Alabama Sea Grant Consortium—see address list.

Catfish Production Management Decision—Catfish
1981 IBM: MSDOS, TRS-80: TRSDOS.
Obtain from: Mississippi-Alabama Sea Grant Consortium—see address list.

Charter and Sport Fisher Profile
See IB. Sportfishing.

Fish Processing Operating Decision—Buy/Sell
See IVC. Commercial Fishing.

IVE. Recreation Economics

Disk Supplement to: A Great Lakes Vacation
1987 EP-24 Apple II computer program $4.00
Supplements "A Great Lakes Vacation" (see Publications, IVE).
Obtain from: Ohio Sea Grant College Program—see address list.

Selected Annotated Bibliography: Coastal Resource Management
By: Hamann Richard
1987 82 pp. (also on IBM disc - $5.00)
This is a coastal resource management bibliography.
Obtain from: Florida Sea Grant College Program—see address list.

IA. Boating

Anchors and Anchoring Theory
By: Jeffrey A. Fisher
1980 4 pp.
Obtain from: Florida Sea Grant College Program—see address list.

Central Lake Erie Recreational Climate Guide
By: C. E. Herdendorf, et al.
1986 Available as a loan copy
Obtain from: National Sea Grant Depository—see address list.

Characteristics of Multi-hulled Sail-assisted Working Watercraft: Hull and Propulsion Systems
By: S. Langevin
1983 FLSGP-W-83-002 pp. 155-167
Obtain from: Florida Sea Grant College Program—see address list.

Chartwork for Fishermen and Boat Operators
By: Geoffrey Motte
1972 86 pp.
Contains exercises with answers provided.
Obtain from: Rhode Island Sea Grant Program—see address list.

Coastlines
By: New York Sea Grant Institute
Quarterly Newsletter
Obtain from: New York Sea Grant Institute—see address list.

Cruising Guide to the Great Lakes
By: Marjorie Cahn Brazer
1985 513 pp. $22.95 & $1.25 shipping.
(Ohio residents add 6% tax.)
Includes connecting waters.
Obtain from: Contemporary Books, Inc., Chicago, B. Dalton, or Walden Bookstores.

Energy Savers for Boats
By: Jeffrey Fisher
1980 2 pp.
Obtain from: Florida Sea Grant College Program—see address list.

53 Boats You Can Build
By: Richard Henderson
Plans and specifications for sailboats, rowboats, and powerboats. A list of addresses of the designers appears at the back of the book.
Obtain from: International Marine Publishing Co., Division of Highmark Publishing, PO Box 220, Camden, Maine 04843.

Formidable Process of Coast Guard User Fees, The
By: Natalie Peter
1984 RIU-0-84-002 pp. 120-141
Obtain from: Rhode Island Sea Grant College Program—see address list.

Great Lakes Boating
By: F. Ned Dikmen
Bimonthly Free
Free if picked up at boating retail stores or other boating facilities around the Great Lakes; otherwise $10 a year for a subscription.
Obtain from: Chicago Boating Publications, Inc., 830 N. State St., Chicago, IL 60610; (312)266-8400.

Guide for Training Canoeing and Kayaking Instructors
By: American Red Cross
Pamphlet—$2.00 Textbook—$5.40
Publication No. 2145
Obtain from: Mid-America Chapter, American Red Cross, 42 E. Ohio, Chicago, IL 60611.

HELM: Happenings and Educational Activities Around Lake Michigan, The
By: Illinois-Indiana Sea Grant Program
Quarterly Newsletter Free
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

How Do People Use Lighthouses and Navigational Charts? A Marine Education Infusion Unit
By: John Butzow, et al.
1980
Teacher background information and several student activities designed to familiarize the students with navigational aids used to warn against danger and help the mariner locate positions.
Obtain from: University of Maine Sea Grant College Program—see address list.

Improving the Performance of Wooden Water-front Structures and Boats
By: Robert D. Graham, et al.
1976 ORESU-P-76-002, pp. 147-150 and ORESU-P-76-001, pp. 90-91
Obtain from: Oregon Sea Grant College Program—see address list.

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Indiana Boating Laws
By: Indiana Department of Natural Resources
1986 Free
General information on boating laws and regulations.
Obtain from: Indiana Department of Natural Resources, Law Enforcement Division, 606 State Office Bldg., Indianapolis, IN 46204.

Inventory of Lake Ontario Inlets and Harbors: Niagara River to Stony Creek
By: Randy D. Crissman, et al.
1976 251 pp.
Obtain from: New York Sea Grant Institute—see address list.

Knowing the Ropes
By: Rosanne Fortner, et al.
1981 Ep-018 Teacher manual, 9 pp.; Youth manual, 15 pp. $3.00
Explains how ropes are made; includes their current and former uses.
Obtain from: Ohio Sea Grant College Program—see address list.

Legal and Liability Considerations of Renting a Boat: Questions and Answers
By: Michael P. Voiland
1977 4 pp.
Obtain from: New York Sea Grant Institute—see address list.

Lightning and Boats
By: Michigan Sea Grant
1989 12 pp. MICHU-SG-89-700 $0.50
Describes a system that directs lightning strikes safely through a boat with less chance of damage or injury.
Obtain from: Michigan Sea Grant College Program—see address list.

Littoral Drift
By: University of Wisconsin Sea Grant Program
Monthly Newsletter Free
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Motor Boat & Sailing
By: Peter A. Janssen
Monthly magazine $16 annually.
Obtain from: Motor Boat and Sailing, PO Box 10075, Des Moines, IA., 50350 or your local newsstand or library.

New U.S. Coast Guard Definition Affects Recreational Boaters
By: Jeff Gunderson
1987 SAN #24 4 pp. Free

Newspaper clippings from the 5-county area in the Illinois-Indiana Lake Michigan region—1986 to present
By: Christine Pennisi
Ongoing
These newsclippings have been collected from approximately eight of the largest daily and weekly newspapers located in the Lake Michigan-dependent communities of Illinois and Indiana.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Power Performance of Planing Boats with the Effect of Propeller Selection and Propeller Guard Design
By: Daniel M. Ladd
1975 Thesis Abstract 1 pp.
Obtain from: Oregon Sea Grant College Program—see address list.

Public Access Sites in Indiana
By: Indiana Department of Natural Resources
Free
Obtain from: Indiana Department of Natural Resources, Division of Fish and Wildlife, 607 State Office Bldg., Indianapolis, IN 46204.

Radar Reflectors for Boats-Marine Electronics
By: Edward Condon, et al.
1978 6 pp.
Obtain from: Oregon Sea Grant College Program—see address list.

Recreation and Weather Guide to the Minnesota Shore of Lake Superior
By: C. Dawson, et al.
1986 32 pp. $1.00
Includes average number of foggy and sunny days, wind velocity, lake temperature, snowfall, and snowcover.
Obtain from: Minnesota Sea Grant Program—see address list.

Recreational Boat Owners' Response to Energy Constraints
By: Joseph D. Fridgen
1982 MICHU-SG-82-301
In symposium proceedings—Michigan Tourism: How Can Research Help? pp. 143-147
Obtain from: Michigan Sea Grant College Program—see address list.

Seiche, The
By: Minnesota Sea Grant Program
Quarterly Newsletter Free
Obtain from: Minnesota Sea Grant Program—see address list.

Skipper's Course, The
By: The U.S. Coast Guard Office for Boating Safety
1986 84 pp.
Information on boating safety, navigation, and rules of the road.
Obtain from: U.S. Coast Guard, 400 Seventh St., Washington, DC 20590.

State and Federal Regulations Related to Boating on Lake Michigan
By: Douglas Musser, et al.
1985 39 pp. Free
Contains a concise tabular listing of the regulations in the four states that border Lake Michigan. Useful for comparison purposes.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Storage Batteries for Boats
By: Don A. Cunning
1977 8 pp.
Obtain from: Oregon Sea Grant College Program—see address list.

Superior Boating Safety
By: Kim Elverum
1978 Superior Advisory Notes, 7 4 pp.
Obtain from: Minnesota Sea Grant Program—see address list.

Twine Line
By: Ohio Sea Grant College Program
Bimonthly Newsletter 6 issues/$4.50
Obtain from: Ohio Sea Grant College Program—see address list.

Upwellings
By: Michigan Sea Grant College Program
Quarterly Newsletter Free
Obtain from: Michigan Sea Grant College Program—see address list.

User Fees for Coast Guard Activities
By: Thomas F. Kincaid
1981 WASHU-W-81-002 pp. 111-113
Obtain from: Washington Sea Grant College Program—see address list.

Using Multimeters on Boats
By: Edward R. Kolbe
1977 4 pp.
Obtain from: Oregon Sea Grant College Program—see address list.

Western Lake Erie Recreational Climate Guide
By: C.E. Herdendorf, et al.
1986 Available as a loan copy
Obtain from: National Sea Grant Depository—see address list.

IB. Sportfishing

Action for the Eighties ... and Beyond, Vol. I, A Strategic Plan for Illinois Fisheries Resources, FY87-FY91
By: Illinois Department of Conservation
1986 21 pp.
Obtain from: Illinois Department of Conservation, Office of Field Operations, Division of Fisheries, 600 N. Grand Ave. W., Springfield, IL 62706.

Age and Growth of Walleye in the New York Waters of Lake Erie, The
By: Sallie P. Sheldon
1978 Thesis abstract 2 pp.
Obtain from: New York Sea Grant Institute—see address list.

Angling for Smallmouth Bass in Lake Erie
By: Mark Malchoff
1984 9 pp.
Obtain from: New York Sea Grant Institute—see address list.

Aquatic Contaminants: A Threat to the Sportfishing Industry
By: Sport Fishing Institute
1986 180 pp. Free
Extensive report discussing many aspects of this problem including a state by state analysis of the contaminant impact on sport fisheries.
Obtain from: Sport Fishing Institute, 1010 Massachusetts Ave., N.W. #100, Washington, DC 20001.

Benefits and Costs of Sea Lamprey Control in the Great Lakes: Some Preliminary Results
By: Daniel R. Talhelm, et al.
1980 Journal reprint 6 pp.
Loan copy available
Obtain from: National Sea Grant Depository—see address list.

Central Lake Erie Recreational Climate Guide
See IA. Boating.

Changes in Growth and Maturity of Walleyes Associated With Stock Rehabilitation in Western Lake Erie, 1964-1983
By: Kenneth M. Muth, et al.
1986 Journal reprint 8 pp.
Obtain from: National Fisheries Center - Great Lakes, 1451 Green Rd., Ann Arbor, MI 48105

Chartwork For Fishermen and Boat Operators
See IA. Boating.

Coastlines
See IA. Boating.

Como Comprar, Preparar Y Cocinar Pescado (How to Buy, Prepare and Cook Fish/Recipes)
1981 MICHU-SG-81-503 Spanish only 6 pp.
Obtain from: Michigan Sea Grant College Program—see address list.

Contaminant Trends in Lake Trout from the Upper Great Lakes
By: Dave DeVault, et al.
1986 Journal reprint 7 pp.
Presents results of the 1977 to 1982 contaminant monitoring analysis of lake trout collected from Lakes Michigan, Superior and Huron between 1977 and 1982.
Obtain from: US Environmental Protection Agency, Great Lakes National Program Office, 536 S. Clark St., Chicago, IL 60605; (312)353-1325.

Contaminants and Trends in Fall Run Coho Salmon
By: David DeVault, et al.
1988 Journal of Great Lakes Research, Vol. 14, No. 1 12 pp.
Shows that many harmful chemicals are found in fish from most of the lakes, but that PCB, DDT, and dieldrin have declined in coho from Lake Michigan.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Contaminants in Fish from Great Lakes Harbors and Tributary Mouths
By: David DeVault
1986 7 pp.
Analysis of composite fish samples collected between 1980 and 1981 for a wide range of pesticides and priority pollutants.
Obtain from: US Environmental Protection Agency, Great Lakes National Program Office, 536 S. Clark St, Chicago, IL 60605; (312)353-1325.

Craving for Crayfish: Minnesota Discovers a Louisiana Tradition, A
By: Jeff Gunderson
1988 6 pp. Free

Dioxin: A Cause for Concern
By: Thomas Stolzenburg
1984 21 pp. Free
Primer on dioxin: where it comes from and why it is a problem.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Dioxin in Great Lakes Fish
By: Dave DeVault
1986 15 pp.
For the "National Dioxin Study," a limited number of carp and trout fillet samples were analyzed around the Great Lakes. This analysis shows the most potentially harmful areas that were examined.
Obtain from: U.S. Environmental Protection Agency, Great Lakes National Program Office, 536 Clark St., Chicago, IL 60625; (312)353-1325.

Dispersal of Three Strains of Hatchery-reared Lake Trout in Lake Ontario
By: Joseph H. Elrod
1987 Journal of Great Lakes Research, Vol.13 No.2, pp. 157-167.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Do You Really Understand the Fish Consumption Advisory?
By: Christine Pennisi
1987 Helm Newsletter Article (Fall/Winter 1987-88) 2 pp. Free
Explains how the Lake Michigan Sportfish Consumption Advisory was developed, and what terms like "risk" of "FDA Standard" mean.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Dynamics of Reproduction by Hatchery Lake Trout on Man-made Spawning Reef
By: James W. Peck
1986 Journal of Great Lakes Research, Vol. 12, No. 4, pp. 293-303.
Obtain from: The Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Eating Great Lakes Fish
1987 Bulletin MICHU-SG-87-500 7 pp. $0.25 (Free to Michigan residents)
Background information on contaminants in Great Lakes sportfish. Supplements fish consumption advisories.
Obtain from: Michigan Sea Grant College Program—see address list.

Eating Lake Michigan Fish
1989 Fact Sheet 2 pp. Free
Answers the most commonly asked questions about PCBs in fish. Outlines proper procedure for cleaning and cooking Lake Michigan fish to reduce PCB levels.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Economic Analysis of Integrated Fisheries Management: The Case of the Lake Michigan Alewife and Salmonid Fisheries, An
By: Karl C. Samples, et al.
1982 Journal reprint 10 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Eelpout (burbot): The Fish Minnesotans Love to Hate
By: Jeff Gunderson
1986 4 pp.
Provides illustrated directions and recipes for skinning, filleting, storing, and cooking this delicious cold water fish.
Obtain from: Minnesota Sea Grant Program—see address list.

Effect of Smoking on Mirex Levels in Brown Trout from Lake Ontario
By: T.W. Lewis, et al.
1985 New York Fish and Game Journal, January 3 pp.
Explains a more effective smoking technique to reduce toxic mirex levels.
Obtain from: Department of Biological Sciences, State University College, Brockport, NY, 14420

Equipment and Methods for Radio Tracking Freshwater Fish
By: J. D. Winter, et al.
1978 Miscellaneous Report 152-78 of the Agricultural Experiment Station 18 pp.
Obtain from: Minnesota Sea Grant Program—see address list.

Evidence of Natural Reproduction by Stocked Lake Trout in Lake Ontario
By: J. Ellen Marsden
1988 Journal of Great Lakes Research, Vol. 14, No. 1 7 pp.
Presents the first evidence of a sizable natural reproduction since the lake trout were stocked in 1973.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd, Ann Arbor, MI 48109

Exploring Freshwater Fisheries, A Fish and Fishing Project Activities Guide
By: Ronald A. Howard, Jr. et al.
1981 24 pp.
Obtain from: New York Sea Grant Institute—see address list.

Fecundity of Hatchery and Wild Lake Trout in Lake Superior
By: James W. Peck
1988 Journal of Great Lakes Research, Vol. 14, No. 1 6 pp.
Explains that the fertility of contemporary (from hatchery) lake trout was slightly higher than the fertility of the native lake trout.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd, Ann Arbor, MI 48109

Feeding Ecology and Vertical Migration of Adult Alewives in Lake Michigan
By: John Janssen, et al.
1980 Journal reprint 8 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Finding Salmon and Trout in Lake Ontario
By: James M. Haynes
1983 8 pp.
Obtain from: New York Sea Grant Institute—see address list.

Fish in Lake Michigan—Distribution of Selected Species
By: Larry Summers, et al.
1981 MICHU-SG-81-600 $3.00
Explains the natural and human factors which influence fish distribution. Includes species maps.
Obtain from: Michigan Sea Grant College Program—see address list.

Fish: Low in Calories, High in Nutrition
By: David Stuiber
1987 4 pp. $0.30
Fifth pamphlet in the series on preserving and preparing fish at home. Various nutritional advantages of eating fish are described.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fish of Lake Michigan
By: Warren Downs
1986 30 pp. $1.00
This fish identification booklet includes a history of the lake's sport and commercial fisheries.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fish of Lake Superior
By: Warren Downs
1984 32 pp. $1.00
This fish identification booklet includes a history of the lake's sport and commercial fisheries.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fish On
By: George Averitt
Annually
Obtain from: News-Dispatch, 121 W. Michigan Blvd., Michigan City, IN 46360-9990; (219)874-7211.

Fish Preparation and Consumption Guide
By: Michigan Department of Public Health
1987 Free
Contains the latest fish consumption advisory for all of the state's lakes including the Great Lakes.
Obtain from: Michigan Department of Public Health; 3500 N. Logan St., Lansing, MI 48909; (800)648-6942.

Fish Tails—Trout? Salmon? Key to Identification of Trout and Salmon in Minnesota Waters of Lake Superior
1979 2 pp.
Obtain from: Minnesota Sea Grant Program—see address list.

Fisheries Conservation Begins with You: Tips on Releasing a Hooked Fish
By: James M. Falk
1985 1 p. Free (multiple copies $0.25 each)
Obtain from: University of Delaware Sea Grant College Program—see address list.

Fisheries Education: From the Great Lakes to the Sea
By: Rosanne Fortner, et al.
1980 RS-004 Journal reprint
2 pp. Free
Describes a board game about fishing rights conflicts in the Great Lakes region. Applicable for grades 5-12.
Obtain from: Ohio Sea Grant College Program—see address list.

Fisheries of the Great Lakes, The
1986 48 pp. $1.50
Illustrated report on the primeval lakes from before the arrival of the Europeans to the region. Traces the history of the fishery.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fisherman's Guide to Echo Sounding and Sonar Equipment: Acoustic Fish Detection Instrument, A
By: Duncan Amos
1980 67 pp.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Fishes of Ohio, The
By: Milton B. Trautman
1981 FS-031 782 pp. $45.00
Obtain from: Ohio State University Press, 1070 Carmack Rd., Columbus, OH 43210.

Fishes of Wisconsin
By: George C. Becker
1983 999 pp.
Obtain from: University of Wisconsin Press, 114 N. Murray Street, Madison, WI 53715.

Fishing for Fun
Member's Manual 4-H1056 $0.55
Leader/Teacher Guide 4-H1057 $0.70
Part of a series of leader/teacher and member/guide booklets with numerous activities. Basic introduction material.
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

Fishing Lake Michigan
By: Harry Wright and Paul Vidal
1985 14 pp.
Basics of fishing, identifying fish, and safety.
Obtain from: Illinois Department of Conservation, 524 S. Second St., 5th Fl., Springfield, IL 62706.

Fishing Sports Advancement Program for Members 9-18 Years of Age
By: James Winkler, et al.
1985
Eighty-five ideas for 4-H project meetings, and activity check lists at six levels of expertise.
Obtain from: Minnesota Extension Service Distribution Center, 3 Coffey Hall, University of Minnesota, St. Paul, MN 55108.

Fixin' Fish
By: Jeffrey Gunderson
1984 56 pp. $6.95
Obtain from: University of Minnesota Press, 2037 University Ave., SE, Minneapolis, MN 55414.

Food Components with Potential Therapeutic Benefits: the N-3 Polyunsaturated Fatty Acids of Fish Oils
By: John Kinsella
1986 10 pp.
Obtain from: New York Sea Grant Institute—see address list.

Food of Trout and Salmon in Lake Ontario
By: Stephen B. Brandt
1986 6 pp.

The baseline data presented may be useful in showing why different salmonids switch foods as different types of prey fish increase or decrease in numbers.
Obtain from: New York Sea Grant Institute—see address list.

Forage Fishes and Their Salmonid Predators in Lake Michigan
By: Donald J. Steward, et al.
1981 Journal reprint 13 pp.

Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Getting to Know Your Catch: Lake Erie Salmonid Identification
By: David O. Kelch
1987 2 pp.

This fact sheet provides identifying characteristics of trout and salmon.
Obtain from: Ohio Sea Grant—see address list

Getting to Know Your Local Fish
By: S. M. Hartley, et al.
1987 EP-019 Teacher guide (25 pp.) and student workbook (11 pp.) $3.00

Illustrates construction and use of a dichotomous key to families of fish in Lake Erie.
Obtain from: Ohio Sea Grant College Program—see address list.

Great Lakes Fish Cookery: Recipes for Under-utilized Fish Species—Alewife, Burbot, Carp, and Sucker
By: Rosanna Mattingly
MICHU-SG-76-500

Recipe booklet with suggestions for preparation of fish, sauces, and stuffings. Useful for a fishing field trip or home economics class.
Obtain from: Michigan Sea Grant College Program—see address list.

Great Lakes Fish Preparation
By: A. Estes Reynolds, et al.
1978 MICHU-SG-78-100 16 pp.

Illustrated guide to purchasing, cleaning, dressing, and cooking Great Lakes fish. Includes recipes.
Obtain from: Michigan Sea Grant College Program—see address list.

Great Lakes Fishes—4-H Fact sheets
By: Michael F. Masterson, et al.
1986-87 9 pp.

Twenty-two fact sheets: fish, brook trout, brown trout, chinook salmon, coho salmon, grayling, lake trout, lake whitefish, rainbow smelt, rainbow trout, bullheads, carp, channel catfish, crappies, lamprey, largemouth bass, muskellunge, northern pike, rock bass, smallmouth bass, sunfishes, walleye, and yellow perch.
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

Guide to Fishing in Central Lake Erie
By: C. E. Herdendorf
1989 GS-008 $2.00

Provides fishermen with useful information on the physical and biological nature of central Lake Erie.
Obtain from: Ohio Sea Grant College Program—see address list.

Guide to Illinois Fishing Regulations
By: Illinois Department of Conservation
1988 51 pp. Free

This booklet contains not only regulations and angling locations for all types of Illinois fish but also other helpful information such as fishing records and health advisories.
Obtain from: Local sporting good stores or at Illinois Department of Conservation offices in Spring Grove, (815)675-2385 or Chicago (312)917-2070

Guide to Utilizing the Freshwater Drum, A
By: David Kelch
1986 20 pp. $2.00

Obtain from: Ohio Sea Grant College Program—see address list.

Gyotaku - Japanese Fish Printing
By: Christopher M. Dewees
1978 8 pp.

Obtain from: California Sea Grant College Program—see address list.

Gyotaku Japanese Fish Printing
By: David Smith
1976 SCMRC-E1-76-001 2 pp.

4-H series activity containing a youth and leader/teacher guide sheet.
Obtain from: National Sea Grant Depository—see address list.

Handbook for Ice Fishermen

General information on ice fishing.
Obtain from: Department of Natural Resources, Information Service Center, Box 30028, Lansing, MI 48909.

HELM—Happenings and Educational Activities Around Lake Michigan, The
See IA. Boating.

Home Canning of Fish
By: David A. Stuiber, et al.
1984 3 pp. $0.20
Describes the appropriate procedures for home canning of fish.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Home Freezing of Fish
By: David A. Stuiber
1986 5 pp. $0.30
Describes the most reliable and effective ways to select and prepare fish for freezing and describes how to thaw seafood.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Home Pickling of Fish
By: David A. Stuiber, et al.
1985 3 pp. $0.50
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Home Smoking of Fish
By: David A. Stuiber, et al.
1984 5 pp. $0.25
Describes smoking methods which have been scientifically tested for safety levels and taste quality.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

How to Select Lure Colors for Successful Fishing
By: Lynn Frederick
1985 1 pp. Free
This explains which colors of lure attract fish, depending on species, time of day, depth, and other factors.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Ice Fishing
By: Warren Downs
1982 20 pp. $1.00
Summary of Wisconsin's ice fishing regulations. Describes proper clothing, gear, and gadgets needed for comfortable, successful ice fishing.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Identifying New York's Salmon and Trout
By: Daniel J. Decker, et al.
1978 13 pp.
Obtain from: New York Sea Grant Institute—see address list.

Illinois Coastal Zone Management Program: Component Study of Biological Communities
1976 15 pp.
Obtain from: Illinois Department of Transportation, Division of Water Resources, 310 S. Michigan, Chicago, IL 60604; (312)793-5948.

Indiana Fish and Wildlife Code Book
Obtain from: Indiana Department of Natural Resources, Publication Division of Fish and Wildlife, 607 State Office Bldg., Indianapolis, IN 46204.

Indiana Fish and Wildlife Regulations
Obtain from: Indiana Department of Natural Resources, Publication Division of Fish and Wildlife, 607 State Office Bldg., Indianapolis, IN 46204.

Indicators of the Status of Cold Water Predator-Prey Systems
By: Larry B. Crowder
1985 6 pp.
Provides hypothesis for the indicators of change in the balance between the salmonid predators and alewives.
Obtain from: National Sea Grant Depository—see address list.

Interactions of 2,3,7,8-TCDD with Immune Responses of Rainbow Trout
By: J. M. Spitsbergen, et al.
1986 18 pp.
Study showed rainbow trouts' immune systems to be surprisingly resistant to dioxin.
Obtain from: New York Sea Grant Institute—see address list.

International Convention on Great Lakes Fisheries
By: J. L. McHugh
1984 NYSGI-0-84-001, pp. 151-159
Obtain from: New York Sea Grant Institute—see address list.

Investigating the Great Lakes Environment. Unit Two: Great Lakes Fishing in Transition
By: Augusto Medina, editor
1984 301 pp. $37.50
An interdisciplinary curriculum unit for middle-school students. Explores the Great Lakes through an in-depth study of its fishery. Audiovisual provided.
Obtain from: Michigan Sea Grant College Program—see address list.

Is it a Walleye or a Sauger?: How to Separate Walleye from Sauger
By: Fred L. Snyder
1989 2 pp. Free
Obtain from: Ohio Sea Grant College Program—see address list.

Is it a White Bass or a White Perch?
By: Fred L. Snyder
1987 1 pp. Free
This illustrates and describes the history of white bass, which is the native species of Lake Erie, and the white perch which is the invading species.
Obtain from: Ohio Sea Grant College Program—see address list.

Kitchi Gami Cookery—A Primer on Lake Superior Fish
By: Julianne Agnew, et al.
1979 64 pp. $2.00
Obtain from: Minnesota Sea Grant Program—see address list.

Lake Erie Cookbook
By: M. L. Holland, et al.
1989 GS-005 $3.00
Information on nutrition, fish selection, handling, and cleaning plus 124 recipes.
Obtain from: Ohio Sea Grant College Program—see address list.

Lake Trout: Leave and Let Live
By: U.S. Fish and Wildlife Service Free
A flyer suggesting ways to avoid catching lake trout as well as release techniques that increase the chances for survival of any lakers that are caught.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Lake Trout Returns to Lake Ontario, The
By: Ellen J. Marsden
1987 In The Conservationist, Vol. 41 4 pp.
Obtain from: NY State Department of Environmental Conservation.

Lamprey Barrier: A Story of Persistence
By: Gale Holloway, et al.
1987 4 pp.
Obtain from: The Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Let's Go Fishing, a Fish and Fishing Project
By: D.J. Decker, et al.
1978 33 pp.
A 4-H project leader's guide.
Obtain from: New York Sea Grant Extension Office, 21 S. Grove St., East Aurora, NY 14052; (716)652-5453.

Let's Go Ice Fishing
By: Ronald A. Howard Jr., et al.
1985 20 pp.
This booklet explains the equipment, methods and safety precautions needed for enjoyable ice fishing.
Obtain from: New York Sea Grant Institute—see address list.

Life History, Abundance, and Potential Harvest of Carp from Michigan Waters of the Great Lakes
By: Rosanna L. Mattingly
1979 MICHU-SG-79-205 66 pp.
Obtain from: Michigan Sea Grant College Program—see address list.

Littoral Drift
See IA. Boating.

Mid-Atlantic Artificial Reef Conference—A Collection of Abstracts
By: James D. Murray
1981 28 pp.
Obtain from: New Jersey Sea Grant Extension Service—see address list.

Mid West Outdoors
By: Gene M. Laulunen
Newspaper Monthly
Obtain from: Mid West Outdoors, 111 Shore Dr., Hinsdale, IL 60521; (312)887-7722.

Movements of Rainbow Steelhead Trout in Lake Ontario and a Hypothesis for the Influence of Spring Thermal Structure
By: J.M. Haynes, et al.
1986 Journal of Great Lakes Research, Vol. 12, No. 4, pp. 304-313.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

New Approach for the Establishment of Fish Consumption Advisories, A
By: Milton Clark, et al.
1987 Journal of Great Lakes Research, Vol. 14, No. 3 8 pp.
Presents an advisory approach that employs risk assessment techniques.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

New U.S. Coast Guard Definition Affects Recreational Boaters
See IA. Boating

New York State Fish Consumption Advisories: Who's At Risk and Why
By: Glenna Ryan
1985 12 pp.
Obtain from: New York Sea Grant Institute—see address list.

Newspaper clippings from the 5-county area in the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

Northern Crayfish: An Update
By: Jeffrey Gunderson
1989 4 pp. Free

Observations of "Hydra" From a Submersible at Two Deepwater Sites in Lake Superior
By: Thomas F. Nalepa, et al.
1987 Journal of Great Lakes Research, Vol. 14, No. 1, pp. 84-87.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

On Julian's Reef
By: Jim Huffstodt
1986 Outdoor Highlights, Vol. 14, No. 14 (July 21), pp. 4-7.
Obtain from: Illinois Department of Conservation, Office of Public Information, 524 S. Second St., Springfield, IL 62701-1787; (217)782-7454.

Optimum Sustainable Yield as a Management Concept in Recreational Fisheries
By: Frank E. Carlton
1974 AFS-W-74-001 pp. 45-50
Obtain from: National Sea Grant Depository—see address list.

Pacific Salmon in the Great Lakes—The History and Future
By: Warren Downs
5 pp. Free
Traces the campaign to restore a predator-prey balance in the Great Lakes after parasitic sea lamprey were brought under control in 1960s.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

PCB's and Other Xenobiotics in Raw and Cooked Carp
By: Mary E. Zabik, et al.
1982 MICHU-SG-82-304 6 pp.
Obtain from: Michigan Sea Grant College Program—see address list.

PCB's Dieldrin and DDT in Lake Trout Cooked by Broiling, Roasting or Microwave.
By: Mary E. Zabik, et al.
1979 In Michigan Agricultural Experiment Station Journal, (January issue) 9 pp.
Explains reduction of toxic contaminants in the fish using three methods of cooking.
Obtain from: Department of Food Science and Human Nutrition, Food Science Bldg., #139, Michigan State University, East Lansing, MI 48824.

Population Characteristics of Adult Pink Salmon in Two Minnesota Tributaries to Lake Superior
By: Joseph P. Nicolette, et al.
1986 Journal of Great Lakes Research, Vol. 12., No. 4, pp. 237-250
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Preparing Those Forgotten Fish for Your Dinner Table
By: Michael Voiland
1978 4 pp.
Obtain from: New York Sea Grant Institute—see address list.

Prey Identification Relating to the Great Lakes Sea Grant Network Salmonid Diet Study
By: John Janssen
1985 4 pp.
Several tables, illustrations and brief keys covering fish anatomy; game fish and their prey; and the prey in various stages of digestion.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Public Access Sites in Indiana
See IA. Boating

Putting PCB's in Perspective
By: Christine Pennisi
1985 HELM Newsletter (Fall/Winter 1985-86) 3 pp. Free
Explains how one health expert balanced the risks of eating certain Lake Michigan fish with other risks in a person's life.
Obtain from: Illinois-Indiana Sea Grant Program —see address list.

Recreation and Weather Guide to the Minnesota Shore of Lake Superior
See IA. Boating.

Reducing Levels of Mirex, Aroclor 1253 (PCB) and DDE by Trimming and Cooking Lake Ontario Brown Trout and Smallmouth Bass
By: Jack Skea, et al.
1979 Journal of Great Lakes Research, Vol. 5, No. 2 7 pp.
Shows that proper trimming before cooking reduced 43-64% of the levels of the 3 contaminants in the fish.
Obtain from: New York State Department of Environmental Conservation, 8314 Fish Hatchery Rd., Rome, NY 13440.

Reducing Red Worm Parasites in your Lake Erie Yellow Perch Catch
By: John L. Crites, et al.
1986 2 pp.
Obtain from: Ohio Sea Grant College Program—see address list.

Regional Impacts of Fishery Allocation to Sport and Commercial Interests: A Case Study of Ohio's Portion of Lake Erie
By: L.J. Hushak, et al.
1986 RS-065 North American Journal of Fisheries Management, Vol. 6, No. 4, pp. 472-480
Obtain from: Ohio Sea Grant College Program—see address list.

Relative Cancer Risks of Chemical Contaminants in the Great Lakes
By: Kenneth M. Bro, et al.
1987 10 pp. Loan copy available.
Risk assessment for anyone who drinks water or eats fish from the Great Lakes.
Obtain from: National Sea Grant Depository—see address list.

Reproductive Success of Male Smallmouth Bass in Long Point Bay, Lake Erie
By: Gregory Goff
1986 American Fisheries Society, Vol. 115, No. 3., pp. 415-423
Obtain from: American Fisheries Society, 5410 Grosvenor Lane, Suite 110, Bethesda, MD 20814.

Role of Size Limits in Walleye Management, The
By: Christopher S. Brousseau
1987 4 pp.
Obtain from: The Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Sanctuaries for Lake Trout in the Great Lakes
By: Jon G. Staneley, et al.
1987 12 pp.
Obtain from: National Fisheries Center—Great Lakes, 1451 Green Rd., Ann Arbor, MI 48105.

Seasonal Movements and Habitats of Brown Trout in South Central Lake Ontario
By: D.C. Nettles, et al.
1987 Journal of Great Lakes Research, Vol. 14, No. 2, pp. 168-177.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Seiche, The
See IA. Boating.

Sheboygan Angler
By: Romy Pittner
A Sheboygan area Great Lakes sport fishermen magazine.
Obtain from: The Angler,1536 N. 35th St., Sheboygan, WI 53081

Smelt - Dip Net To Dish
By: Jeff Gunderson
1988 4 pp.
A Lake Superior Advisory Notes publication.
Obtain from: Minnesota Sea Grant Program—see address list.

Smoking Fish at Home
By: Fred Snyder
1986 2 pp. Free
This fact sheet explains how to prepare and brine fish, to build and operate a smokehouse, and to store your smoked fish.
Obtain from: Ohio Sea Grant College Program—see address list.

Southern Lake Michigan Sportfishery: Angler Profiles and Specialization Index for Illinois and Indiana
By: James D. Absher, et al.
1987 130 pp. $3.00
Contains a generalized angler profile, including fishing knowledge, preferences, and sociodemographics.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Stock Structure of Rainbow Smelt in Western Lake Superior: Biochemical Genetics
By: Donald Schreiner
Obtain from: Minnesota Sea Grant Program—see address list.

Suitability of Coal-waste Blocks in the Freshwater Environment of Lake Ontario
By: George Flynn, et al.
1985 14 pp.
Obtain from: New York Sea Grant Institute—see address list.

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Summary of Fish Trimming and Cooking Techniques Used to Reduce Levels of Oil Soluble Contaminants
By: Jack Skea, et al.
1981 36 pp.
Obtain from: Field Toxicant Research Unit, 8314 Fish Hatchery Rd., Rome, NY 13440.

Survival From Sea Lamprey Predation by Two Strains of Lake Trout
By: William D. Swink, et al.
1986 Canadian Journal of Fisheries Aquatic Sciences, Vol. 43, No. 12, pp. 2528-2531
Obtain from: The Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Thermal fronts: magnets for salmon and trout
By: Mike Voiland
1986 3 pp.
Obtain from: New York Sea Grant Institute—see address list.

To Harvest a Walleye
By: Susan Leach, et al
1982 EP-011 Teacher and youth manuals
16 pp. $3.00
Obtain from: Ohio Sea Grant College Program—see address list.

Twine Line
See IA. Boating.

Upper Great Lakes Fish Boil: A Tasty Tradition
By: Dale Baker and Jeff Gunderson
1988 SAN #26 2 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Upwellings
See IA. Boating.

Western Lake Erie Recreational Climate Guide
See IA. Boating.

Who's Managing the Fish?
By: Tom Flatt, et al.
Annual 18 pp. Free
This booklet gives complete creel surveys, lake surveys, research studies, stocking schedules and lists other activities undertaken during the last year.
Obtain from: Indiana Department of Natural Resources, Division of Fish and Wildlife, 607 State Office Bldg., Indianapolis, IN 46204.

Wildlife Project: Fishing (Bait, Spin, Fly Casting, and Safety).
1979 12 pp.
Obtain from: Local Cooperative Extension 4-H office.

Wildlife Project: Making Artificial Lures
1981 12 pp.
Obtain from: Local Cooperative Extension 4-H office.

Yellow Perch in Lake Erie
By: Roseanne Fortner, et al.
1986 Teacher and youth guides $3.00
Includes board game designed to introduce students to the stages of the perch life cycle and its effects on the perch population size.
Obtain from: Ohio Sea Grant College Program—see address list.

IC. Sailing

Central Lake Erie Recreational Climate Guide
See IA. Boating.

Fun of Sailing, The
1977 37 pp.
A brief "learn-to-sail" booklet containing three basic lessons that can be learned in three days using a 12-15 foot boat.
Obtain from: Your local Alcort AMF Sailboat store or write to AMF Alcort, Inc., South Leonard St., Waterbury, CT 06720.

Grapnel
By: Robert Powers
1971 MIT-E-71-002, pp. 147-148
Part of Shields Sailboat Search program.
Obtain from: Massachusetts Institute of Technology Sea Grant College Program—see address list.

Great Lakes Boating
See IA. Boating.

Great Lakes Sailor
By: Jane Rieteld
1952
Story about a young boy's adventures as an apprentice sailor.
Obtain from: Viking, New York or your local library.

How Do People Use Lighthouses and Navigational Charts? A Marine Education Infusion Unit
See IA. Boating.

Knowing the Ropes
See IA. Boating.

Legal and Liability Considerations of Renting a Boat: Questions and Answers
See IA. Boating.

Modern Practical Seaman's Views on Commercial Sailing, A
By: H. F. Morin Scott
1983 FLSGP-W-83-002, pp. 132-154
Obtain from: Florida Sea Grant College Program—see address list.

Motor Boat and Sailing
See IA. Boating.

Navigation and Communication
By: Fred Horr
1971 MIT-E-71-002, pp. 131-135
Part of Shields Sailboat Search program.
Obtain from: Massachusetts Institute of Technology Sea Grant College Program—see address list.

Newspaper clippings from the 5-county area in the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

Public Access Sites in Indiana
See IA. Boating.

Recreation and Weather Guide to the Minnesota Shore of Lake Superior
See IA. Boating.

Search Pattern
By: Fred Horr
1971 MIT-E-71-002, pp. 125-130.
Part of Shields Sailboat Search program.
Obtain from: Massachusetts Institute of Technology Sea Grant College Program—see address list.

Side Scan Sonar
1971 MIT-E-71-002, pp. 136-146.
Part of Shields Sailboat Search program.
Obtain from: Massachusetts Institute of Technology Sea Grant College Program—see address list.

Simplified Sail Handling for Yachts and Commercial Vessels
By: Frank Maclear
1983 In FLSGP-2-83-003, pp. 244-262
Obtain from: Florida Sea Grant College Program—see address list.

Western Lake Erie Recreational Climate Guide
See IA. Boating.

ID. Other Water Sports and Safety

Ambassador of the Sea: Share Your Experience
By: Bonnie Kay Schwan
1983 MICHU-SG-84-301
Conference on Underwater Education Proceedings, pp. 210-214 $0.40
Obtain from: Michigan Sea Grant College Program—see address list.

Cold Water Drowning: A New Lease on Life
By: Martin J. Nemiroff
1977 MICHU-SG-77-104 13 pp. $0.10
Detailed information on rescuing victims in a cold water drowning emergency. Includes graphics depicting rescue techniques.
Obtain from: Michigan Sea Grant College Program—see address list.

Cold Water Survival—Hypothermia
By: Stephen Stewart, et al.
1980 MICHU-SG-80-315
Brief description of hypothermia, first aid for the hypothermia victim, and hypothermia prevention.
Obtain from: Michigan Sea Grant College Program—see address list.

Commodore Wilbert E. Longfellow: Water Safety Crusader
Biography of Red Cross water safety program creator
Obtain from: American Red Cross, Mid-America Chapter, 43 E. Ohio St., Chicago, IL 60611 or nearest ARC chapter.

Diver Education Series Brochure
By: Lee H. Somers
1987 4 pp. Free
This brochure describes 18 inexpensive informational booklets about scuba-diving for novice and experienced divers.
Obtain from: Michigan Sea Grant College Program—see address list.

Feasibility Study of CPR in the Water
By: Nico March, et al.
1980 Journal reprint 7 pp.
Obtain from: California Sea Grant College Program—see address list.

Hooked!
By: Sheila Shafer
1984 4 pp.
A first aid publication.
Obtain from: Alaska Sea Grant College Program—see address list.

Hypothermia and the Pediatric Patient
By: Richard S. Young, et al.
1983 MINNU-B-83-001, pp. 20-34
Obtain from: Minnesota Sea Grant Program—see address list.

Hypothermia: Causes, Effects, Prevention
By: Robert S. Pozos
1982 173 pp. $14.95
Obtain from: New Century Publishers, Inc., 275 Old New Brunswick Rd., Piscataway, NJ 08854.

Introduction to Scuba Diving
By: Lee Somers
1986 9 pp. MICHU-SG-86-504 $1.25
Describes physical skills and economic investment required for scuba diving and how to choose a good instructor.
Obtain from: Michigan Sea Grant College Program—see address list.

Learn to Swim
Publication No. 2118. Free
Obtain from: American Red Cross, Mid-America Chapter, 43 E. Ohio St., Chicago, IL 60611 or nearest ARC chapter.

Making Marine Reporting System (MAREP) Work, Proceedings—1985 National MAREP Conference
1986 103 pp.
Discusses non-weather service vessels and facilities assisting the Weather Service with call-in reports.
Obtain from: Louisiana Sea Grant College Program—see address list.

New No-Decompression Tables Based on No-Decompression Limits Determined by Doppler Ultrasonic Bubble Detection
By: Karl E. Huggins
1981 MICHU-SG-81-205 $0.40
This is a new No-Decompression table for scuba divers.
Obtain from: Michigan Sea Grant College Program—see address list.

Newspaper clippings from the 5-county area in the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

NOAA Weather Information from your Home Computer
By: Robert Werner, et al.
1985 2 pp. Free
Weather forecasts via home computers.
Obtain from: University of Delaware Sea Grant College Program—see address list.

Pennants: Hypothermia...Surviving in Cold Water
By: James F. Lubner
1985 1 p. Free
Illustrated bulletin that lists the telltale symptoms of mild-to-critical stages of hypothermia; outlines first aid procedures.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Recreation and Weather Guide to the Minnesota Shore of Lake Superior
See IA. Boating.

Scuba Diving the Minnesota Shore of Lake Superior
By: Howard Bell
1988
Fact sheet on diving sites along the lake and what can be found at each one.
Obtain from: Minnesota Sea Grant Program—see address list.

Secret Mission
By: Larry Czachor
Oct. 26, 1986 In Sunday Magazine, Chicago Tribune 5 pp.
Article explains how World War II airplanes that crashed into Lake Michigan are being unexpectedly discovered by scuba divers.
Obtain from: Chicago Tribune, 435 N. Michigan Ave., Chicago, IL 60611; (312)222-3232.

Selecting a Scuba Diving Buddy
By: Lee H. Somers
1987 MICHU-SG-87-501 25 pp. $1.50
This booklet examines the fundamental rules for buddy diving.
Obtain from: Michigan Sea Grant College Program—see address list.

Submersion Hypothermia and Near-Drowning
By: A. W. Conn
1983 MINNU-B-83-001, pp. 152-164
Obtain from: Minnesota Sea Grant Program—see address list.

Superior Boating Safety
By: Kim Elverum
1978 SAN #74 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Survival in Cold Water: Hypothermia Prevention
By: Chad P. Dawson
1989 SAN-16 6 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Swimming and Aquatic Safety

Obtain from: American Red Cross, Mid-America Chapter, 43 E. Ohio St., Chicago, IL 60611

Thermoregulation and Hypothermia in the Elderly

By: K. Cooper

1983 MINNU-B-83-001, pp. 35-36

Obtain from: Minnesota Sea Grant Program—see address list.

Wreck Diver

By: Kathy Kastilahn

Oct. 2, 1986 In Wilmette Life

This article focuses on a Northbrook, IL resident who has for nearly 20 years collected relics from shipwrecks while scuba diving in Lake Michigan.

Obtain from: Wilmette Life, 1232 Central Ave., Wilmette, IL 60091; (312)251-4300.

IIA. Our Great Lakes Heritage

Ancient Shores on Lake Erie

By: James Comiensky, et al.

1982 EP-003 Teacher and youth manual

12 pp. $3.00

Obtain from: Ohio Sea Grant College Program—see address list.

Around Lake Michigan

By: Jean R. Komaiko, et al.

1980 450 pp.

Discusses historical points of interest, the phenomena of the lake (storm, seiches), and the many recreational opportunities around the shoreline of the four states.

Obtain from: Libraries or bookstores in the Lake Michigan region, or Houghton Mifflin Co., 1 Beacon St., Boston, MA 02108.

Around the Shores of Lake Michigan—A Guide to Historic Sites

By: Margaret Beattie Bogue

1985 382 pp. $19.95

Besides an 85-page overview of the 1,660 mile trip, the book devotes text to 182 points of historic and contemporary interest around the Lake.

Obtain from: Libraries or bookstores in the Lake Michigan region, or the University of Wisconsin Press, 114 N. Murray St., Madison, WI 53715.

Around the Shores of Lake Superior: A Guide to Historic Sites

By: Margaret Beattie Bogue, et al.

1979 179 pp.

Obtain from: local library.

Atlas of Great Lakes Indian History

By: Helen Hornbeck Tanner

1986 232 pp. $57.50

An evocative text plus thirty-three highly detailed maps demonstrating the massive displacement of native communities from 1640 to 1871.

Obtain from: Libraries or bookstores in the Lake Michigan area, or University of Oklahoma Press.

Beacon Newsletter, The

By: Great Lakes Lighthouses Keepers Association

On-going

Contains a lighthouse bibliography.

Obtain from: Great Lakes Lighthouses Keepers Association, PO Box 2907, Southfield, MI 48037.

Beautiful Ships: a Story of the Great Lakes, The
By: John B. Prescott
1952

Story of a fisherman's family during the invasion of the sea lamprey.
Obtain from: Longmans, Green; ABC-CLIO, Inc., 2040 Alameda Padre Sierra, PO Box 4397, Santa Barbara, CA 93140-4397.

British Great Lakes Forts, The
By: Carl E. Krog
1986 Inland Seas, Vol. 42, No. 4 pp., 252-260
Obtain from: Inland Seas, Great Lakes Historical Society, 480 Main St., Vermilion, OH 44089.

Brownstone and Bargeboard - A Guide to Bayfield's Historic Architecture
By: Whitney Gould, and Stephen Wittman
1981 42 pp. $1.00
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Call It North Country
By: John Bartlow Martin
300 pp. $24.95 for cloth; $10.95 for paperback (Add $1.25 per book for shipping; 6% sales tax for Ohio residents).
Early exploration and lives of hunters, trappers, miners and lumberjacks of the upper peninsula.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452

Clear Water, Clean Water: Current Programs and Future Strategies for Managing Great Lakes Water Quality
See IIIA. Great Lakes Urban and Natural Resources.

Coastal Zone Management Information Exchange
By: Office of Ocean and Coastal Resource Management
Quarterly 40 pp. Free
Gives the status of state coastal zone management programs including those of Wisconsin, Michigan, Pennsylvania, New York, and Ohio (the other Great Lakes States do not have such programs).
Obtain from: National Oceanic and Atmospheric Administration, U.S. Department of Commerce, 1825 Connecticut Ave. N.W., Washington DC, 20235.

Coastlines
See IA. Boating.

Cultural, Economic and Historical Characteristics of the Green Bay Region
1976 144 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Directory of Great Lakes Educational Material
By: Great Lakes Science Advisory Board
1987 75 pp. Free
This comprehensive reference cites materials indexed by subjects and grades and divided by the type of material (book, newsletter, film, kit, etc.).
Obtain from: International Joint Commission, PO Box 32869, Detroit, MI 48232.

Diversion of Great Lakes Water—Part 1. Hydrologic Impacts and Part 2. Economic Impacts
By: Eric D. Loucks, et al.
1987 69 pp. $4.00 each
This is an assessment of several diversion models for Great Lakes water, including the hydrologic and economic consequences of each model.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Draft Environmental Impact Statement for a Proposed Diversion of Lake Michigan Water at Chicago
By: Keith Ryder
1988
Describes impacts of a project which would divert Lake Michigan water when the lake is above its normal level; when no flooding would occur downstream; and when no impact on navigation depths would occur on the rest of lakes system.
Obtain from: US Army Corps of Engineers, Chicago District Environmental Branch, 219 S. Dearborn St., Chicago, IL 60604.

Duel for the Dunes
By: Kay Franklin, et al.
1983 278 pp. $18.95
A recounting of the dramatic saga of conflict that reveals the volatile personalities and politics behind the fierce struggle for a 45-mile stretch of Lake Michigan shoreline.
Obtain from: University of Illinois Press, 100 University Press, 54 E. Gregory, Champaign, IL 61820. In Chicago area, may be found at B. Dalton or Walden bookstores.

Edge of the Arrowhead
By: R. Lydecker
1982 60 pp. $2.00
Provides thumbnail sketches of the history of Minnesota's North Shore.
Obtain from: Minnesota Sea Grant Program—see address list.

Evidence of Ancient Seas in Ohio
By: Susan Leach, et al.
1979 EP-010 Teacher and youth manuals
9 pp. and 7 pp. $3.00
Obtain from: Ohio Sea Grant College Program—see address list.

Evolution of Water Resource Management: A Laurentian Great Lakes Case Study
By: H. J. Harris, et al.
1987 17 pp. Free

A reconstruction of the evolution of water resource management in the Great Lakes Basin, based on the case of Lower Fox River.
Obtain from: National Sea Grant Depository—see address list.

Faces of the Great Lakes
By: B. King
1977 190 pp.

Picture book containing information about the beginning of the Great Lakes. Discusses the fur trade, its changes, and other transformations.
Obtain from: Sierra Club Books, 530 Bush St., San Francisco, CA 94108.

Forever Open, Clear and Free
By: Lois Willie
1972

A history of the development of Chicago's lakefront.
Obtain from: Regnery Gateway Inc., 1130 17th St., NW, Washington, DC 20036.

From a Bailly Point of View
By: Olga M. Schiemann

Obtain from: Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304.

Ghost Ships of the Great Lakes
By: Dwight Boyer

This book contains historical accounts of some of the famous lost sunken ships of the Great Lakes.
Obtain from: Local library or bookstore.

Governor's Conference on Lake Michigan-Illinois' Great Lake: Protecting and Developing a Valuable Natural Resource
By: Illinois Department of Energy and Natural Resources (ENR)
1986 249 pp.

Proceedings of the annual ENR conference, dealing with water quality, water quantity, shoreline and water uses, and other related research and policy issues.
Obtain from: ENR, Energy and Environmental Affairs Division, 325 W. Adams St., Springfield IL, 62706; (217)785-2800.

Grand Hotel
By: John McCabe
1987 250 pp. $29.95 (Add $1.25 per book for shipping; 6% sales tax for Ohio residents)

Contains over 200 photographs of the centennial of this famous hotel.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Great Lakes - An Environmental Atlas and Resource Book, The
By: The United States Environmental Protection Agency, et al.
1987 44 pp.

A vividly colorful reference intended for both classroom and general public that explains both in narrative and maps, the Great Lakes physical environment and human activities around them.
Obtain from: USEPA, Great Lakes National Program Office, 230 S. Dearborn St., Chicago, IL 60604.

Great Lakes Basin Compact—Public Law 90-419
By: the 90th Congress
1968 9 pp.

This is the federal law that established the Great Lakes Commission. Includes legislative history.
Obtain from: Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Great Lakes Facts
1985 Brochures (New edition expected in 1989)

One brochure on the Great Lakes Basin and one on each of the Great Lakes.
Obtain from: Michigan Sea Grant College Program—see address list.

Great Lakes Guidebook, Vol. 1, Lakes Ontario and Erie, The
By: George Cantor
1985

Describes the attractions in the Great Lakes area. Includes maps, suggested walks, and scenic drives. Includes information about the War of 1812 on the Great Lakes.
Obtain from: University of Michigan Press, PO Box 1104, Ann Arbor, MI 48106.

Great Lakes Indians: A Pictorial Guide
By: William J. Kubiak
1970

Illustrations and narratives on dwellings, dress, physical features and cultural characteristics of three linguistic stocks known to have lived in the Great Lakes region. Excellent source.
Obtain from: Baker Publishers, Grand Rapids, MI or your local library.

Great Lakes Maritime History
By: Charles Feltner
1982

Includes references on ship history, shipwreck history, and Great Lakes history.
Obtain from: Seajay Publications, PO Box 2176, Dearborn, MI or your local library.

Great Lakes Reader, The
By: Walter Hanighurst
1966
Highlights the Great Lakes history taken from personal journals, newspapers, and books. A good source for first-hand accounts.
Obtain from: Macmillan Publishing Co., Inc., 866 Third Ave., New York, NY 10022, or your local library.

Great Lakes Region in Children's Books, The
By: Donna Taylor
1980
A selected annotated listing of curriculum-oriented books about the lakes and the states that border them.
Obtain from: Green Oaks Press Publishers, 9339 Spier Rd., Brighton, MI 48116 or your local library.

Great Lakes Reporter, The
Bimonthly newsletter 12 pp.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave., #1408, Chicago, IL 60611; (312)645-0901.

Great Stories of the Great Lakes: Thrilling Tales of Tragedy; Humor, and Heroism on the World's Greatest Freshwater Seas
By: Dwight Boyer
1966
Obtain from: Dodd, Mead Publishers, 71 5th Ave., New York, NY 10003 or your local library.

HELM: Happenings and Educational Activities Around Lake Michigan, The
See IA. Boating.

Hiawatha Legends, The
By: Henry R. Schoolcraft
272 pp. $7.49 (add $1.25 per book for shipping; 6% tax for Ohio residents)
A reprint of the original 1856 work.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Historical Basis for Limits on Lake Superior Level Regulations
By: H. Hartmann
1986 24 pp.
This is an open file report.
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Historically Famous Lighthouses
1972 Pub. No. 5P15/N050-012-00097.2
88 pp. $1.40
Illustrated historical lore surrounding 56 famous American lighthouses.
Obtain from: Superintendent of Documents, US Government Printing Office, 710 N. Capitol St., NW, Washington, DC 20402.

Implications of Interbasin Diversions, Consumptive Use, and the Greenhouse Effect on Future Great Lakes Water Management
By: F.H. Quinn
1985 4 pp.
From the Sixth Conference on Hydrometeorology, Indianapolis, IN, October 29 - November 1, 1985.
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Indian Names in Michigan
By: Virgil J. Vogel
1986 227 pp. $22.00 ($13.95—paperback)
Obtain from: University of Michigan Press, PO Box 1104, Ann Arbor, MI 48106.

Island Heritage
By: Ted Ligibel, et al.
1987 96 pp. $5.95
Information for visitors on the Bass Island in Lake Erie, including descriptions of eight walking tours.
Obtain from: Ohio State University Press, 1070 Carmack Rd., Columbus, OH 43210.

Lacustrine Lessons
Newsletter for educators Published through August 1988; back issues are available Free
Provides water-related lessons for grade K-12.
Obtain from: Minnesota Sea Grant Program—see address list.

Lake Erie Facts
By: Jeffrey M. Reutter
1987 2 pp. Free
Facts and figures on Lake Erie.
Obtain from: Ohio Sea Grant College Program—see address list.

Lake Huron 1980 Intensive Survey, Summary Report. Report to the Surveillance Work Group
By: International Joint Commission
1986 133 pp.
Obtain from: International Joint Commission, The Great Lakes Regional Office, 100 Ouellette Ave., Windsor, Ont. CANADA N9A 6T3.

Lake Michigan Monitor
By: Lake Michigan Federation
Quarterly Newsletter 8 pp. Available with membership

Primarily contains information on Lake Michigan pollution and erosion issues.
Obtain from: Lake Michigan Federation, 8 S. Michigan Ave., #2010, Chicago, IL 60608; (312)263-5550.

Lakers, The
1987 128 pp. $32.50

The first all-color pictorial of past and present Great Lakes vessels.
Obtain from: Great Lakes Boating Magazine, 830 N. State St., Chicago, IL 60610; (312)266-8400.

Land of the Inland Seas: The Historic and Beautiful Great Lakes Country
By: William D. Ellis
1974

Covers the period from the retreat of the Wisconsin glacier 15,000 years ago to the building of the Minnesota's Experimental City. Good source of illustrations, charts, and maps.
Obtain from: American West Publishers, 7000 E. Tanque Verde Rd., Suite 30, Tucson, AZ 85715, or local library.

Late Wisconsinian Glacial History of Northeastern Wisconsin and Western Upper Michigan
By: W. L. Peterson
1986 Bulletin 1652, 14 pp. $2.25

Obtain from: United States Geological Survey, Books and Open-File Reports, Box 25425, Denver, CO 80225.

Law and the Lakes: Toward a Legal Framework for Safeguarding the Great Lakes Water Supply, The
By: The Center for the Great Lakes
1986 $12.00 (10 copies or more/$10.00 each)

A reference guide that examines the current Great Lakes Framework for managing consumptive uses and protecting from diversions.
Obtain from: The Center for the Great Lakes, 438 N. Michigan Ave., #1408, Chicago, IL 60611 ATTN: Publications Section; (312)645-0901.

Littoral Drift
See IA. Boating.

Memories of the Lakes: Told in Story and Picture
By: D.T. Brown
1967

Discusses the history of the Great Lakes, several major storms, a sea lock accident and many more subjects.
Obtain from: Freshwater Press, 1701 E. 12th St., Suite 3KW, Cleveland, OH 44114-3201.

Michigan Natural Resources Magazine - Special Lighthouse Issues
By: Michigan Department of Natural Resources
Jan./Feb.-1984, July/Aug.-1981 $2.00

Obtain from: Outdoor Store, PO Box 30034, Lansing, MI 48909; (800)248-5848.

Naming, The
By: Conan B. Easton

Life on Washington Island in Lake Erie between 1800 and 1870 including the events of 1816 that led to the naming of the island.
Obtain from: Ohio Libraries

New York State Supplement to Coastal Problems and Resource Management
By: Bob Jaeger, et al.
1983 156 pp.

This contains student activities in coastal ecology and coastal management.
Obtain from: New York Sea Grant Institute—see address list.

Newspaper clippings from the 5-county area in the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

Northern Lights
By: Charles K. Hyde
1984 $30.00

A survey of Great Lakes lighthouses conducted by Wayne State University history professor for the U.S. Coast Guard.
Obtain from: Michigan Department of Natural Resources, PO Box 30034, Lansing, MI 48909; (800)248-5840 or Lake Michigan region libraries or bookstores.

Ohio's North Coast: A Resource in Transition
By: Dr. Charles E. Herdendorf
1987 FS-034 3 pp. Free

Information on the character of the Lake Erie lakeshore.
Obtain from: Ohio Sea Grant College Program—see address list.

Origin and Meaning of Place Names Along Lake Superior Shoreline Between Keweenaw Portage and Montreal River, The
By: Bernard C. Peters
1986 Michigan Academician, Vol. 19, No. 2, pp. 253-257

Obtain from: Michigan Academy of Science, Arts, and Letters, Tourny House, 2117 Washtenaw Ave., Ann Arbor, MI 48104.

Origin and Meaning of the Name Sault Sainte Marie, The
By: Bernard C. Peters
1987 5 pp.
Obtain from: Illinois-Indiana Sea Grant Program--- See address list.

Our Great Lakes Connection: A Curriculum Guide for Grades Kindergarten Through Eight
By: Lynn Entine, et al.
1985 204 pp. Free (one per teacher)
This book contains many student activities that teach about the science, social science, and drama of the Great Lakes.
Obtain from: Environmental Resources Center, 216 Ag Hall, 1450 Linden Dr., Madison WI, 53706; (608)262-1377.

Preserving the Lights of the Straits
By: Mike Van Hoey
1986 Michigan History, Vol. 70, No. 5, pp. 24-29
Obtain from: Michigan History, Department of State, Michigan Bureau of History, Lansing, MI 48918.

Rock Island
By: Conan B. Eaton
64 pp. $3.75
From pioneer times to the return of the island to public domain as a park.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Sacred Sands: The Struggle for Community in the Indiana Dunes
By: J. Ronald Engel
This social history explains the events that led to the creation of the Indiana Dunes National Lakeshore.
Obtain from: Lake Michigan regional libraries or northwest Indiana bookstores.

Sault Ste. Marie Canal: A Chapter in the History of Great Lakes Transportation, The
By: Brian Osborne, et al.
1986 148 pp. $9.00
Catalogue number: No. R61-2-9-32E
Obtain from: The Canadian Government Publishing Centre, Ottawa, Ontario KIA OS9.

Secret Mission
See ID. Other Water Sports and Safety.

Seiche, The
See IA. Boating.

Souvenirs of Lake Michigan: An Interdisciplinary Teachers Workshop at the Illinois Beach Park
By: The Illinois Department of Conservation
1978 100 pp.
Obtain from: Illinois Department of Transportation, Division of Water Resources, Rm. 1606, 310 S. Michigan, Chicago IL 60604; (312)793-5948.

Spell of the White Sturgeon, The
By: Jim Kjelaard
1953
A novel about Great Lakes commercial fishermen of the early 19th century.
Obtain from: Dodd, Mead Publishers, 71 5th Ave., New York, NY 10003, or local library.

Strange Adventures of the Great Lakes
By: Dwight Boyer
1974
Stories about vessels on the Great Lakes.
Obtain from: Dodd, Mead Publishers, 71 5th Ave., New York, NY 10003, or local library.

Tecumseh's Last Stand
By: John Sugden
1986 286 pp. $19.95
Account of the Indian leader's actions in the latter part of the War of 1812
Obtain from: University of Oklahoma Press, 1005 Asp Ave., Norman, OK 73019.

Titanic of Lake Michigan, The
By: Henry Lange
Feb 3, 1988 1 pp.
This newspaper article reveals that the huge ship, Chicora, may have been located after its mysterious disappearance 93 years ago.
Obtain from: News Dispatch, 121 West Michigan Blvd., Michigan City, IN 46360.

Tribute to the Great Lakes, A
By: Michigan Natural Resources Magazine
May/June, 1986
Contains sketches and articles about the history, shipping, weather, policy, fisheries, economic development, recreation, water quality, research and future prospects of each lake.
Obtain from: Michigan Department of Natural Resources, PO Box 30034, Lansing, MI 48909.

Twine Line
See IA. Boating.

Upwellings
See IA. Boating.

Washington Island: 1836-1876
By: Conan B. Eaton
85 pp. $6.50 (Add $1.25 per book for shipping/6% sales tax for Ohio residents.)
History of the settlement through Yankee, Irish, and Scandinavian periods.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Water Resources Management in Ohio: 1830-1860
By: Gene Krauss
1980 NY SGI-U-80-002, pp. 107-122
Obtain from: New York Sea Grant Institute—see address list.

We Have Met the Enemy
By: Dorothy Briss, et al.
1982 EP-021 Teacher and youth guides
$2.00
A series of activities that allow students to experience various aspects of the War of 1812 including its causes, the role of Lake Erie, and how the war was won.
Obtain from: Ohio Sea Grant College Program—see address list.

Wisconsin, Blessed with Abundant Natural Resources, Strives to Balance Environmental Controls, Economic Growth
By: Bureau of National Affairs
1986 Environment Reporter, Sept. 9, pp. 677-680
Obtain from: Environment Reporter, The Bureau of National Affairs, Inc., 1231 25th St., NW, Washington, DC 20037.

Wisconsin Coastal History Trails: Lake Michigan
By: James Purinton
1976 70 pp.
Obtain from: Wisconsin Coastal Management Development Program, c/o Division of Energy, Intergovernmental Relations — Coastal, PO Box 7868, Madison, WI 53707.

Wisconsin Coastal History Trails: Lake Superior
By: James Purinton
1976 45 pp.
Obtain from: Wisconsin Coastal Management Development Program, c/o Division of Intergovernmental Relations — Coastal, PO Box 7868, Madison, WI 53707.

Wreck Diver
See ID. Other Water Sports and Safety.

IIB. The History of Canals in the Midwest

Big Ditch, Ohio Historical Society Handbook Series, The
By: Ohio Historical Society
1971
Obtain from: Ohio Historical Society, or local library.

Birth of the Erie Canal, The
By: Harvey Chalmers, II
1960
Obtain from: Twayne Publishers, New College and University Press, PO Box 1392, Schenectady, NY 12301, or local library.

Canal Celebrations in Old Fort Wayne
By: Staff of Allen County Public Library
1953
Presents various accounts of the history of the Wabash and Erie Canal taken from newspapers at that time.
Obtain from: Allen County Public Library, 900 Webster St., PO Box 2270, Fort Wayne, IN 46801.

Concerning the Character of the Architectural Legacy of the Illinois and Michigan Canal Corridor between Summit and Joliet
By: C. William Westfall
1981
Obtain from: Local library.

Erie Water West: A History of the Erie Canal 1792-1854
By: Ronald E. Shaw
1966
Obtain from: University Press of Kentucky, 663 S. Limestone St., Lexington, KY 40506-0336, or local library.

Historic Portage-Portage Canal
By: Wisconsin State Historical Society
1968
Obtain from: The Wisconsin State Historical Society, 816 State St., Madison, WI 53706, or local library.

History of the Illinois-Michigan Canal
By: LaSalle County Conservation Association
1962
Obtain from: LaSalle County Conservation Association or local library.

How the Irish Built the Erie
By: Harvey Chalmers II
1964

Obtain from: Twayne Publishers, New College and University Press, PO Box 1392, Schenectady, NY 12301, or local libraries.

Indiana's Canal Heritage
By: Alvin F. Harlow
1926

Discusses the canal-building expansion of the early nineteenth century American history as it spread westward through Pennsylvania and Ohio into Indiana.
Obtain from: Appleton Century-Crofts, Inc., Prentice Hall, Division of Simon and Schuster, Rte. 9W, Englewood Cliffs, NJ 07675, or local library.

Long Haul West: The Great Canal Era, 1817-1850, The
By: Madeline Sadler Waggoner
1958

A narrative of pioneers' experiences during the canal era. Includes stories of traveling by trail, canal, or railroads.
Obtain from: G.P. Putman's Sons, The Putnam Publishing Group, 200 Madison Ave., New York, NY 10016, or local library.

Ohio Canal Era
By: Ohio Historical Society
1969

Obtain from: Pioneer Press, 37 S. Palouse St., Walla Walla, WA 99362, or local library.

Ohio Canals
By: Rosanne Fortner, et al.
1981 EP-015 4 pp. $3.00

Teacher and youth guides.
Obtain from: Ohio Sea Grant College Program—see address list.

Old Towpaths: The Story of the American Canal Era
By: Alvin F. Harlow
1964

Obtain from: Local library.

Sault Ste. Marie Canal: A Chapter in the History of Great Lakes Transportation, The
See IIA. Our Great Lakes Heritage.

Towpath Guide

Obtain from: Illinois Canal Society or local library.

IIC. Arts and Crafts of the Great Lakes

Ambassador of the Sea: Share Your Experience
See ID. Other Water Sports and Safety.

Directory of Great Lakes Educational Material
See IIA. Our Great Lakes Heritage.

Gyotaku — Japanese Fish Printing
See IB. Sportfishing.

Gyotaku Japanese Fishing Printing—Youth and Leader guide
See IB. Sportfishing.

Knowing The Ropes
See IA. Boating.

Last Northwood Reader, The
By: Cully Gage
156 pp. $7.49 (Add $1.25 per book for shipping/6% sale tax for Ohio residents.)
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Make Your Own Fish Trophy
By: Sandor P. Schuman
1977 18 pp.
Obtain from: New York Sea Grant Institute—see address list.

Our Great Lakes Connection: A Curriculum Guide for Grades Kindergarten through Eight
See IIA. Our Great Lakes Heritage.

Rope
By: H. David Greene
1980 2 pp.
This fact sheet is part of a set of aquatic activities for youth.
Obtain from: New York Sea Grant Institute—see address list.

Souvenirs of Lake Michigan: An Interdisciplinary Teachers Workshop at the Illinois Beach Park
See IIA. Our Great Lakes Heritage.

Up North
By: Sam Cook
$14.95 (Add $1.25 per book for shopping/6% tax for Ohio residents.)
A collection of essays and stories of the North Country.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Water As Metaphor
By: Robert E. Najem
1982 6 pp. Available as loan copy.
Obtain from: National Sea Grant Depository—see address list.

IID. Disasters of the Great Lakes

Computer Animation of Storm Surge Predictions
By: Charles M. Libicki, et al.
1985 RS-053 Journal Reprint
16 pp. Free
Shows how the computer can be used to more reliably and quickly predict storm surges which are nature's greatest causes of erosion.
Obtain from: Ohio Sea Grant College Program—see address list.

Death's Door
By: Conan B. Eaton
34 pp. $3.75 (Add $1.25 per book for shipping/6% sales tax for Ohio residents.)
History of the notorious strait between Green Bay and Lake Michigan.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Fire and Ice
By: Robert Wells, et al.
450 pp. $13.95
A two volume set including *Fire at Peshtigo*, the story of the 1871 fire that killed more people and did more damage than the Chicago fire, and *Shipwreck on Lake Michigan*.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Great Lakes Maritime History
See IIA. Our Great Lakes Heritage.

Great Lakes Storm Surge Flood Forecasting Methods
By: Keith W. Bedford, et al.
1980 RS-015 Proceedings—Urban Stormwater Management in Coastal Areas 10 pp.
Obtain from: Ohio Sea Grant College Program—see address list.

Great Lakes Storm Surge Planning Program (SSPP)
By: National Oceanic and Atmospheric Administration
1987 9 pp.
Obtain from: Water Resources Center Library, University of Illinois, 2535 Hydrosystems Lab, 205 N. Mathews, Urbana, IL 61801.

Great Lakes Triangle, The
By: Rosanne Fortner
1982 EP-107
Teacher and youth guides $3.00
Teachers guide to three classroom activities leading to a consideration of fact and fiction about the disappearance of planes and ships in the Great Lakes area.
Obtain from: Ohio Sea Grant College Program—see address list.

Great Stories of the Great Lakes: Thrilling Tales of Tragedy, Humor, and Heroism on the World's Greatest Freshwater Seas
See IIA. Our Great Lakes Heritage.

Historic Trends and Occasional Catastrophes
By: Larry R. McCormick, et al.
1984 13 pp.
Obtain from: New York Sea Grant Institute—see address list.

Lake Erie Response to the January 26, 1978 Cyclone, The
By: J. Steven Dingman
1984 RS-017 In Journal of Geophysical Research, 89 (C4): 6427-6445, July 20
Obtain from: Ohio Sea Grant College Program—see address list.

Memories of the Lakes: Told in Story and Picture
See IIA. Our Great Lakes Heritage.

North Shore Weather Wisdom
By: Bruce Munson and Leonard Peterson
1988 SAN #11 8 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Oil Spills: A Coastal Resident's Handbook
By: John T. Omohundro
Obtain from: New York Sea Grant Institute—see address list.

Our Great Lakes Connection: A Curriculum Guide for Grades Kindergarten Through Eight
See IIA. Our Great Lakes Heritage.

Record St. Clair River Ice Jam of 1984
By: J.A. Derecki, et al.
1986 In Journal of Hydraulic Engineering, Vol. 112, No. 12, pp. 1182-1194
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Secret Mission
See ID. Water Sports and Safety.

Ships and Men of the Great Lakes
By: Dwight Boyer
1977 208 pp.
Accounts of various sinkings and mishaps on the Great Lakes.
Obtain from: Dodd, Mead Publishers, 71 5th Ave., New York, NY 10003, or local library.

Shipwrecks of the Lakes
By: D.T. Bowen
1952
Vivid descriptions of events surrounding Great Lakes shipwrecks.
Obtain from: Freshwater Press, 1701 E. 12th St., Suite 3KW, Cleveland, OH 44114-3201.

Storm Surges
By: J. Keir, et al.
1987 EP-025 Teacher guide (12 pp.) and student workbook (9 pp.) $3.00
Students study the action of storms over Lake Erie from charts and learn the causes and effects of storm surges and seiches.
Obtain from: Ohio Sea Grant College Program—see address list.

True Tales of the Great Lakes
By: Dwight Boyer
1971 324 pp. $9.95
Storms, shipwrecks, people and happenings around the Great Lakes. One third of the book describes in detail the S. S. Eastland and the storm of November 1913.
Obtain from: Dodd, Mead Publishers, 71 5th Ave., New York, NY, 10003, or local library or bookstore.

Wind-driven Ice-push Event in Eastern Lake Ontario, A
By: Robert Gilbert, et al.
1986 6 pp. In Journal of Great Lakes Research, Vol. 12., No. 4, pp. 326-331.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Wreck Diver
See ID. Other Water Sports and Safety.

Wrecks and Rescues of the Great Lakes: a Photographic History
1981 117pp.
Obtain from: Howell North Books, Division of Howell North-Darwin-Superior, 850 N. Hollywood Way, Burbank, CA 91505, or local library.

IIIA. Great Lakes Urban and Natural Ecology

Acid Rain Stimulation of Lake Michigan Phytoplankton Growth
By: B.A. Manny, et al.
1987 In the Journal of Great Lakes Research, Vol.13 No.2, pp. 218-223
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Air Matters
By: Andy Morton
Ongoing Newsletter
Air pollution topics of general interest in Wisconsin.
Obtain from: Wisconsin Department of Natural Resources; (608)266-2060.

Annual Water Quality Report, 1986-1987
By: The Northeastern Illinois Planning Commission
1987 15 pp. Free
Besides highlights of NICP's 1987 accomplishments and 1988 plans, the report explains the 1987 amendments to the Federal Clean Water Act and how local governments should respond.
Obtain from: The Northeastern Illinois Planning Commission, 400 W. Madison St., Chicago, IL 60606.

Artificial Seaweed for Shoreline Erosion Control?
By: Spencer Rogers, Jr.
1986 18 pp.
Obtain from: University of North Carolina Sea Grant College Program—see address list.

Attitudes of Decision Makers in the Great Lakes States Regarding Large-scale Diversions
By: Helen A. Brohl
1986 TD-01583 pp. $9.29
This report showed that in 1984, 62% of survey respondents felt that water diversion from the Great Lakes should not be allowed.
Obtain from: Ohio Sea Grant College Program—see address list.

Basic Water Environmental Series
1979

Member's Manual	4-H1044	$0.70
Leader/Teacher Guide	4-H1045	$0.70

Leader/teacher and member/student guide booklets with numerous teaching activities. Basic introductory material.
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

Beaches are Shore Protection
By: Frank Lichtkoppler
1986 FS-020 Free
Briefly discusses the nature of beaches and how they can help prevent coastline erosion.
Obtain from: Ohio Sea Grant College Program—see address list.

Benthic Community and Sediment Quality Assessment of Port Hope Harbour, Lake Ontario
By: D.R. Hart, et al.
1986 In Journal of Great Lakes Research, Vol. 12, No. 3, pp. 206-220
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Biogeochemistry of Polychlorinated Biphenyls in the Acushnet River Estuary, Massachusetts
By: John W. Farrington, et al.
1986 24 pp.
This paper helps one to better understand how PCBs and related organic toxics distribute and concentrate in fish and how they affect public health standards.
Obtain from: Woods Hole Oceanographic Institute Sea Grant—see address list.

Biological Removal of Mercury from Toxic Waste
By: Jeffrey Williams, et al.
1985 RS-058 8 pp. Free
The paper shows evidence that a certain strain of bacteria can remove most mercury from a typical sewage and industrial waste sample.
Obtain from: Ohio Sea Grant College Program—see address list.

Bluff Slumping and Stability: A Consumer's Guide
By: Suzanne Tainter
1982 MICHU-SG-82-902 65 pp.
$2.00
Natural forces (erosion) and human activities which contribute to bluff instability are defined and possible control measures are discussed.
Obtain from: Michigan Sea Grant College Program—see address list.

Calculating Stream Flow
By: David H. Greene
1980 2 pp.
Part of a fact sheet set of aquatic activities for youth.
Obtain from: New York Sea Grant Institute—see address list.

Chemical Limnology of Nonpolar Organic Contaminants: Polychlorinated Byphenyls in Lake Superior, The
By: S.J. Eisenreich
1987 81 pp.
This describes the characteristics of PCBs and how it has spread in the lake.
Obtain from: Minnesota Sea Grant Program—see address list.

Civic Solution—Lake Forest Shoreline Restoration
By: John F. Fischbach, et al.
1987 15 pp.
Also in the Proceedings of Coastal Zone '87, the fifth Symposium on coastal and ocean management, May 26-29, 1987 Vol. 4, pp. 4406-20
Obtain from: City Manager, City of Lake Forest, 220 E. Deerpath, Lake Forest, IL 60045.

Clear Water, Clean Water: Current Programs and Future Strategies for Managing Great Lakes Water Quality
By: The Center for the Great Lakes
1986 $12.00
A summary of a larger two volume set on U.S. and Canada Great Lakes water quality laws and programs, plus the proceedings of the 1986 Summit on the subject.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave, #1408, Chicago, IL 60611, Attn: Publications; (312)645-0901.

Climatic Changes, Population Growth, and Their Effects on Great Lakes Water Supplies
By: Stewart Cohen
1986 In Professional Geographer, Vol. 38, No. 4, pp. 317-323
Obtain from: Professional Geographer, Association of American Geographers, 1710 16th St., NW, Washington, DC 20009.

Coastal Design with Natural Processes Along the Ocean and Great Lakes Coastlines of the U.S.—An Introduction
By: Stephen Lopez
1985 32 pp.
This booklet concentrates on describing how erosion protective vegetation plans can control erosion of both beaches and bluffs.
Obtain from: New York Sea Grant Institute—see address list.

Coastal Processes and Erosion
By: B.A. Kennedy, et al.
1988 EP-007 Teacher guide (17 pp.) and student workbook (12 pp.) $3.00
Explains shore protection devices and how they work.
Obtain from: Ohio Sea Grant College Program—see address list.

Coastal Processes Workbook: Evaluating the Risks of Flooding and Erosion for Great Lakes Coastal Property
By: Philip Keillor et al.
1987 38 pp. $1.00
This booklet features step-by-step summaries of how to determine the risk of flooding, how to estimate minimum construction set-backs, and ways to evaluate shore protection structures.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Coastal Protection Structures and Their Effectiveness
By: Kim Fulton-Bennett, et al.
Obtain from: California State Department of Boating and Waterways, 1629 S. Street, Sacramento, CA 95814, or University of California—Santa Cruz.

Coastal Zone Management Information Exchange
See IIA. Our Great Lakes Heritage.

Coastlines
See IA. Boating.

Contaminant Management Strategies for the Great Lakes: Optimal Solutions under Uncertain Conditions
By: Thomas D. Fountaine, et al.
1987 In the Journal of Great Lakes Research, Vol. 13, No. 2, pp. 178-192
Obtain from: International Association of Great Lakes Research, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 481.

Contaminant Trends in Lake Trout from the Upper Great Lakes
See IB. Sportfishing.

Contaminants and Trends in Fall Run Coho Salmon
See IB. Sportfishing.

Contaminants in Fish from Great Lakes Harbors and Tributary Mouths
See IB. Sportfishing.

Controlling Bluff Groundwater along the Great Lakes—Coastal Erosion and Protection
By: Bruce De Young, et al.
1979 6 pp.
Obtain from: New York Sea Grant Institute—see address list.

Cross-Border Litigation, Environmental Rights in the Great Lakes Ecosystem
By: Paul R. Muldoon
1987
This book is the first in a series of examinations of the problem of ecosystem environmental protection in the face of political and administrative adversity.
Obtain from: Carswell Legal Publications, 2330 Midland Ave., Agencourt, ON, M1S1P7; (416)291-8421.

Currents and Temperatures in Green Bay, Lake Michigan
By: G.S. Miller, et al.
1985 In Journal of Great Lakes Research, Vol. 11, No. 2., pp. 97-109
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Defusing Toxic Threat: Controlling Pesticides and Industrial Waste
By: Sandra Postel
1987 Worldwatch Paper #79 69 pp. $4.00 ($1.00 each for 21 or more copies.)
Obtain from: Worldwatch Institute, 1776 Massachusetts Ave. NW, Washington, DC 20036.

Deposition of Airborne Metals into the Great Lakes: An Evaluation of Past and Present Estimates
By: Jill Schmidt, et al.
1984 Journal Reprint 22 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Development of Regional Dredged Material Disposal Plans Designating Sites that are Environmentally and Economically Compatible
By: J. Wrenn, et al.
1977 In DELU-W-77-001, pp. 12-13
Obtain from: Delaware Sea Grant College Program—see address list.

Dioxin: A Cause For Concern?
See IB. Sportfishing.

Dioxin in Great Lakes Fish
By: Dave DeVault, et al.
1986 15 pp.
A limited number of carp and trout fillet samples were analyzed around the Great Lakes for the "National Dioxin Study." This analysis shows the most potentially harmful areas to be examined.
Obtain from: U.S. EPA Great Lakes Program Office, 536 Clark St., Chicago, IL 60605; (312)353-1325.

Directory of Great Lakes Educational Material
See IIA. Our Great Lakes Heritage.

Diver Assessment of the Inshore Southeastern Lake Michigan Environment Near the DC Cook Nuclear Plant, 1973-82
By: John A. Dorr III, et al.
1986 Special Report No. 120 160 pp.
Obtain from: Center for Great Lakes and Aquatic Sciences (Great Lakes Research Division) 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Diversion of Great Lakes Water. Part 1. Hydrologic Impacts; Part 2. Economic Impacts
See IIA. Our Great Lakes Heritage.

Do You Really Understand the Fish Consumption Advisory?
By: Chris Pennisi
1987 Article in The Helm newsletter, Fall/Winter 1987-88 2 pp. Free
Explains how the Lake Michigan Sportfish Consumption Advisory was developed, and what is meant by terms such as "risk" or "FDA Standard."
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Draft Environmental Impact Statement for a Proposed Diversion of Lake Michigan Water at Chicago
See IIA. Our Great Lakes Heritage.

Dynamics of Lake Michigan Phytoplankton: Primary Production and Growth
By: Gary L. Fahenstiel, et al.
1987 Journal Reprint Canadian Journal of Fisheries and Aquatic Sciences, Vol. 44, No. 3, pp. 499-508
Obtain from: Canadian Journal of Fisheries and Aquatic Sciences, Scientific Information and Publications Branch, 200 Kent St., Ottawa Ont. K1A 0E6 CANADA

Dynamics of Lake Michigan Phytoplankton: Recent Changes in Surface and Deep Communities
By: Gary L. Fahenstiel, et al.
1987 Journal Reprint Canadian Journal of Fisheries and Aquatic Sciences, Vol. 44, No. 3, pp. 509-524
Obtain from: Canadian Journal of Fisheries and Aquatic Sciences, Scientific Information and Publications Branch, 200 Kent St., Ottawa Ont. K1A 0E6 CANADA

Earthwatching III
By: University of Wisconsin Sea Grant Institute and University of Wisconsin Institute for Environmental Studies
1989 144pp. $5.00
Series of short informational items on the full range of ecological issues and events with an emphasis on the Great Lakes. Easily understood by youngsters.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Ecological Effect of Rubble-mound Breakwater Construction and Channel Dredging at West Harbor, Ohio (western Lake Erie)
By: B.A. Manny, et al.
1985 Technical Report, EL-85-10 110 pp.
Obtain from: Environmental Laboratory, U.S. Army Engineer Waterways Experiment Station, PO Box 631, Vicksburg, MS 39180-0631.

Effect of Influent Phosphorus Reductions on Great Lakes Sewage Treatment Costs
By: W.C. Sonzogni, et al.
1986 In Water Resources Bulletin Vol. 22., No. 4, pp. 623-627
Obtain from: Water Resources Bulletin, American Water Resources Assoc., 5410 Grosvenor Lane, Suite 220, Bethesda, MD 20814.

Effect of Lake Erie on Climate, The
By: J. D. Meinke, et al.
1979 EP-002 Teacher guide (9 pp.) and student workbook (9 pp.) $3.00
Discusses effect of temperature on movement of air, land, and sea breezes and how they influence climate and economy near large bodies of water.
Obtain from: Ohio Sea Grant College Program—see address list.

Effect of Lake Erie on Ohio's Temperature, The
By: James Meinke, et al.
1985 EP-001 Teacher guide and student workbook (9 pp.) $3.00
Differences in soil and water heat absorption and release show how lakes and oceans moderate land temperatures.
Obtain from: Ohio Sea Grant College Program—see address list.

Effect of Storms on Pollution Loading Estimates, The
By: Keith W. Bedford, et al.
1986 RS-059 9pp. Free
This studies a two-dimensional simulation designed to synthesize the loads at Lake Erie's edge.
Obtain from: Ohio Sea Grant College Program—see address list.

Effect of Structures and Lake Level on Bluff and Shore Erosion in Berrien County, MI,1970-74, The
By: William A. Birkemier
1980 76 pp.
Obtain from: U.S. Army Corps of Engineers.

Effects of Benthic Macroinvertebrates on the Exchange of Solutes Between Sediments and Freshwater
By: Gerald Matisoff, et al.
1985 RS-056 15 pp. Free
This study shows three specific examples of the impact of bottom invertebrates repolluting the water.
Obtain from: Ohio Sea Grant College Program—see address list.

Effects of Coal Fly-ash Disposal on Water Quality in and around the Indiana Dunes National Lakeshore, Indiana
By: Mark A. Hardy
1981 64 pp.
Obtain from: U.S. Geological Survey, 12201 Sunrise Valley Dr., Reston, VA 22092.

Environmental Assessment
By: Linda S. Reynolds
1985 39 pp.
This report explains how environmental law has developed. It also suggests how it can continue to be effective in fostering wise use of the environment.
Obtain from: New York Sea Grant Institute—see address list.

Environmental Impact Statement for Proposed Diversion of Lake Michigan Water at Chicago
By: U.S. Army Corps of Engineers
1988
The proposed project would divert Lake Michigan water into the Illinois waterway when either the lake is above its average, there is no downstream flooding, and there is no effect on irrigation in the Great Lakes.
Obtain from: U.S. Army Corps of Engineers, Environmental Branch, Chicago District, 219 S. Dearborn St., Chicago, IL 60604

Environmental Impacts of the Aquatic Disposal of Dredged Material: Fact and Fancy
By: Robert Costanza, et al.
1985 TAMU-W-76-0-003, pp. 220-235
Obtain from: Louisiana Sea Grant College Program—see address list.

Environmental Management Practices to Reduce Industrial Non-Point Pollution: A Summary of Best Management Practices
By: West Michigan Environmental Action Council
1987 29 pp. $0.75
One of a series of six booklets on controlling non-point pollution.
Obtain from: West Michigan Environmental Action Council, 1432 Wealthy S.E., Grand Rapids, MI 49507; (606)451-3051.

Environmental Progress
Bimonthly 9 pp.
Obtain from: Illinois Environmental Protection Agency, 2200 Churchill Rd., PO Box 19276, Springfield, IL 62794-9276; (217)782-3397.

Environmental Protection Act
Revised annually 40 pp.
Obtain from: Illinois EPA, 220 Churchill Rd., PO Box 19276, Springfield, IL, 62794-9276; (217)782-3397.

Enzymatic Removal of Hazardous Pollutants from Industrial Aqueous Effluents
By: Alexander M. Klibanov
1983 18 pp.
Obtain from: Massachusetts Institute of Technology Sea Grant College Program—see address list.

Erosion along the Great Lakes
By: B. A. Kennedy, et al.
1985 EP-006 Teacher guide (12 pp.) and student workbook (9 pp.) $3.00
Uses maps and aerial photos to determine recession rates along shorelines.
Obtain from: Ohio Sea Grant College Program—see address list.

Erosion and Sedimentation Along a Cohesive Shoreline—The North-central Shore of Lake Erie
By: N.A. Rukavina, et al.
1987 In Journal of Great Lakes Research, Vol.13 No.2, pp. 202-217
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Evidence for the Lake Chippewa Extreme Low-water Stage in Lake Michigan
By: Roger Bader, et al.
1987 In Journal of Great Lakes Research, Vol.13 No.2 5 pp.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Evolution of Water Resource Management: A Laurentian Great Lakes Case Study
See IIA. Our Great Lakes Heritage

Executive Summary - Shoreline Situation, Indiana Dunes National Lakeshore
By: Great Lakes Coastal Research Laboratory
1986 38 pp. Free
This report summarizes the research conducted by the Purdue University team on the erosion situation along three reaches of this Lake Michigan National Lakeshore.
Obtain from: Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304; (606)451-3651.

Facing the Lake: The Coastwatchers of Racine County, Wisconsin
By: J. Phillip Keillor, et al.
1984 Journal Reprint 19 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fall Beachcombing
By: Suzanne Tainter
1978 6 pp. MICHU-ST-78-305
Describes natural treasures that can be found on Great Lake Beaches.
Obtain from: Michigan Sea Grant College Program—see address list.

Field and Laboratory Studies of the Toxicity to Phytoplankton of Polychlorinated Biphenyls
By: C. Donald Powers, et al.
1982 8 pp.
Obtain from: New York Sea Grant Institute—see address list.

Finding Economical Solutions for Dredged Material Disposal
By: Carol Cutshall, et al.
1987 In Proceedings of Coastal Zone '87, the Fifth Symposium on Coastal and Ocean Management, May 26-29, 1987, Vol. 4, pp. 4232-45
Obtain from: Wisconsin Department of Administration, 101 S. Webster, PO Box 7864, Madison, WI, 53707.

First Annual Review of the Great Lakes Toxic Substance Control Agreement
By: Council of Great Lakes Governors
1987
Reports the progress that state governments have made in implementing the six principles of the Council of Great Lakes Governors' Toxic Substance Control Agreement of 1986.
Obtain from: Local libraries or Governor's office.

Fish Preparation and Consumption Guide
See IB. Sportfishing.

Five Year Program Strategy for Great Lakes National Program Office of the US Environmental Protection Agency, 1986-1990
1985 49 pp.
Obtain from: Great Lakes National Program Office, US EPA, 536 S. Clark St., Chicago, IL 60605; (312)353-2117.

Formation of Toxaphene-like Contaminants during Simulated Paper Pulp Bleaching
By: Richard Larsen, et al.
1986 23 pp.
Toxaphene is a contaminant found in the Great Lakes. This research begins to explain possible sources of toxaphene.
Obtain from: Water Resources Center, University of Illinois, 2535 Hydrosystems Lab, 205 N. Mathews, Urbana, IL 61801.

Geography of the Great Lakes
By: J. L. Timmons, et al.
1980 EP-014 Teacher guide (7 pp.) and student workbook (17 pp.) $3.00
Obtain from: Ohio Sea Grant College Program—see address list.

Geomorphology and Stability of Southwestern Lake Superior Coastal Slopes
By: M.N. Schultz, et al.
1984 6 pp.
Provides classifications and geotechnical descriptions of glacial till slopes along the southwestern shore of Lake Superior.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Getting Coastal Permits: Regulatory Programs on New York's Great Lakes Coast
By: Charles R. O'Neill, Jr.
1985 19 pp. $0.50
This booklet explains the entire process of getting an erosion protection structure approved in New York state.
Obtain from: New York Sea Grant Institute—see address list.

Governor's Conference on Lake Michigan—Illinois' Great Lake: Protecting and Developing a Valuable Natural Resource, A
See IIA. Our Great Lakes Heritage.

Great Lakes, The
By: John Heritage, editor
1985 32 pp.
Obtain from: US Environmental Protection Agency, Great Lakes Program Office 536 S. Clark St., Chicago, IL 60605; (312)353-2117.

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Great Lakes Facts Brochures
See IIA. Our Great Lakes Heritage.

Great Lakes Region in Children's Books, The
By: Donna Taylor, editor
1980
A selected annotated listing of curriculum-oriented books about Illinois, Indiana, Michigan, Minnesota, Ohio, Ontario, and Wisconsin, as well as their bordering lakes.
Obtain from: Local library or Green Oaks Press Publishers, 9339 Spicer Road, Brighton, MI 48116.

Great Lakes Legal Seminar: Diversion and Consumption Use
By: The Center for the Great Lakes
1986 $10.00 (10 or more copies, $8 each)
A collection of papers presented at a 1985 seminar attended by leading U.S. and Canadian water law experts.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave. #1408 Chicago, IL 60611, Attn: Publications; (312)645-0901.

Great Lakes Regional Fallout Source Functions, NOAA Technical Memorandum ERL GLERL-56
By: J.A. Robbins
1985 22 pp.
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Great Lakes Reporter, The
See IIA. Our Great Lakes Heritage.

Great Lakes Shore Erosion and Flooding Assistance Programs
By: Great Lakes Commission
1987 13 pp. $1.25
Obtain from: Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Great Lakes Speakers Bureau Directory
By: Great Lakes Commission
1989 80 pp. $5.00
Lists nearly 400 experts interested and available to make presentations on a variety of Great Lakes subjects—water quality, fisheries, geology, waste management, recreation, shipping, and others.
Obtain from: Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Great Lakes Toxic Hotspots: A Citizen's Action Guide
By: David Fogarty
1985 49 pp.
Obtain from: The Lake Michigan Federation, 59 E. Van Buren, #2215, Chicago, IL 60603; (312)939-0838.

Great Lakes' Troubled Waters, The
By: Charles E. Cobb, Jr.
1987 36 pp.
Obtain from: Local libraries.

Great Lakes United, The
Quarterly
Obtain from: Great Lakes United, State University College at Buffalo, Cassety Hall, 1300 Elmwood Ave., Buffalo, NY 14222; (716)886-0142.

Great Lakes Water Levels
1986 Free
Booklet with maps, graphs, and drawings regarding level cycles, controls and forecasting techniques.
Obtain from: The Information Unit, Canada Center for Inland Waters, PO Box 5050, Burlington, Ontario LTR 4A6, CANADA.

Great Lakes Water Quality Agreement: An Evolving Instrument for Ecosystem Management
By: Robert E. Stein, et al.
1986 Environment, Vol. 28., No. 6, pp. 25-27
Obtain from: Environment, Heldref Publications, 4000 Albemarle St., NW, Washington, DC 20016.

Great Lakes Water Quality Agreement of 1978 (as Amended in 1987)
By: Lee Thomas, et al.
1987 Free
The amendments strengthen each signing party's accountability and contain ten new sections ranging from ranking of cultural pollutants to providing a stronger citizen role.
Obtain from: International Joint Commission, Regional Office, PO Box 32869, Detroit, MI 48232.

Great Lakes Water Quality Improvement
By: J.V. DePinto, et al.
1986 Environmental Science and Technology, Vol. 20, No. 8., pp. 752-759
Obtain from: Environment Science and Technology, American Chemical Society, 1155 16th St., NW., Washington, DC 20036.

Ground-water Data for Michigan, 1985
By: U.S. Department of Interior, Geological Survey
1986 50 pp. Open-File Report; 86-417
Obtain from: U.S. Geological Survey, District Chief, 6520 Merchantile Way, Suite 5, Lansing, MI 48910.

Guide to Coastal Erosion Processes, A
By: Charles O'Neil, Jr.
1985 14 pp.
This bulletin gives a better understanding of natural coastal processes that cause shoreline erosion.
Obtain from: New York Sea Grant Institute—see address list.

Guidelines for the Effective Use of Floating Tire Breakwaters
By: C.T. Bishop, et al.
1983 19 pp.
Obtain from: New York Sea Grant Institute—see address list.

HELM—Happenings and Educational Activities Around Lake Michigan, The
See IA. Boating.

Help Yourself
1978 Free
A discussion of Great Lakes erosion problems and various engineering methods of shoreline protection.
Obtain from: U.S. Army Corps of Engineers, North Central Division, 536 S. Clark St., Chicago, IL 60605.

Homeowner's Guide to Reducing Water Pollution
By: West Michigan Environmental Action Council
1987 27 pp. $0.40 (complete set $1.00)
One of a series of six booklets on controlling non-point pollution.
Obtain from: West Michigan Environmental Action Council, 1432 Wealthy S.E., Grand Rapids, MI 49507; (606)451-3051.

How to Use Fill Material in Stabilizing Shoreline Bluffs or Banks
1986 Pennants fact sheet series 2 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Human Health and Lake Michigan Fish
See IB. Sportfishing.

IAGLR-87, Program and Abstract of 30th Conference
By: International Association of Great Lakes Research
1987 64 pp.
This booklet provides an overview of the latest Great Lakes research topics and lists sources to contact for additional information.
Obtain from: International Association of Great Lakes Research, 2200 Bonisteel, University of Michigan, Ann Arbor, MI 48109.

Illinois Water Quality Report
By: Division of Water Pollution Control, Planning Section
1988 Free
This report addresses the water quality assessment efforts of the State of Illinois for fiscal years 1986 and 1987.
Obtain from: Illinois Environmental Protection Agency, 2200 Churchill Rd., PO Box 19276, Springfield, IL 62794-9276.

Illinois Water Resource Directory
By: Water Resources Center, University of Illinois
1986 55 pp.
Obtain from: Water Resources Center, University of Illinois, 2535 Hydrosystems Lab, 205 N. Mathews, Urbana, IL 61801.

Impacts of CO2-induced Climatic Changes on Water Resources in the Great Lakes Basin
By: Stewart J. Cohen
1986 In Water Resources Bulletin, Vol. 8, pp. 135-153
Obtain from: American Water Resources Association, 5410 Grosvenor Lane, Suite 220, Bethesda, MD 20814.

Implications of Interbasin Diversions, Consumptive Use, and the Greenhouse Effect on Future Great Lakes Water Management
See IIA. Our Great Lakes Heritage.

Improving the Performance of Wooden Waterfront Structures and Boats
See IA. Boating.

Incidence of Deformities in Chironomus Spp. from Port Hope Harbour, Lake Ontario, The
By: W.F. Warwick, et al.
1987 In Journal of Great Lakes Research, Vol.13, No.1, 5 pp.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Indiana Environment, The
Bimonthly newsletter
Obtain from: The Indiana Department of Environmental Management, Office of External Affairs, 105 S. Meridian St., PO Box 6015, Indianapolis, IN 46206; (317)232-8560.

Indiana Shoreline Erosion, Vols. II and III
1982 150 pp.
Obtain from: US Army Corps of Engineers, Chicago District, 219 S. Dearborn, Chicago, IL 60604.

Indiana Waste Exchange
By: Environmental Quality Control, Inc.
Ongoing
This catalog lists waste materials which have beneficial and commercial value.
Obtain from: Indiana Department of Environmental Management, Office of Tech. Assistant, 105 S. Meridian, PO Box 6015, Indianapolis, IN 46206; (317)232-8172.

International Joint Commission Annual Report
This organization advises the US and Canadian governments on international Great Lakes issues.
Obtain from: International Joint Commission Great Lakes Regional Office Information Services, PO Box 32869, Detroit, MI 48232.

Introduction to Michigan's Water Resources
By: Institute of Water Research
1987 64 pp. $4.95
Contains 16 color maps and 35 graphs, photos and illustrations that help the reader to understand Michigan's water resources and their need to be carefully managed.
Obtain from: Michigan State University, 334 Natural Resources Bldg., East Lansing, MI 48824; (517)353-3742.

Key Actions to Restore Beneficial Uses of the Lower Green Bay Area of Concern: A Summary Report
By: H.J. Harris
1987 31 pp. Free
This report outlines priorities for rehabilitating Green Bay.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Lacustrine Lessons
See IIA. Our Great Lakes Heritage.

Lake Erie and Changing Lake Levels
By: Carolyn Farnsworth, et al.
1985 EP-005 9 pp. $3.00
Set of activities included in this teacher and youth guide.
Obtain from: Ohio Sea Grant College Program—see address list.

Lake Erie Facts
See IIA. Our Great Lake Heritage.

Lake Erie Shore Erosion
By: Frank Lichtkoppler
1986 Free
Discusses the two main shore erosion processes: wave erosion and mass wasting.
Obtain from: Ohio Sea Grant College Program—see address list.

Lake Huron 1980 Intensive Survey, Summary Report. Report to the Surveillance Work Group
See IIA. Our Great Lakes Heritage.

Lake Level Effects as Measured from Aerial Photos
By: John G. Lyon, et al.
1984 RS-030 Journal Reprint 9 pp.
Obtain from: Ohio Sea Grant College Program—see address list.

Lake Michigan Monitor
See IIA. Our Great Lakes Heritage.

Lake Superior Game, The
By: Barbara Liukkonen
1989 12 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Lake Superior Water Quality Issues: Recommendations for Action
By: Great Lakes United
1987 Report
Represents a citizen's agenda for water quality programs developed at the Lake Superior regional meeting.
Obtain from: Great Lakes United, State University College at Buffalo, Cassety Hall, 1300 Elmwood Ave., Buffalo, NY 14222; (716)886-0142.

Lake Superior Water Supply Forecasting
By: T.E. Croley II, et al.
1987 Preprint volume for the Sixth Conference on Hydrometeorology, Indianapolis, Indiana, October 29-November 1, 1985
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Late, Great Lakes: An Environmental History, The
By: Ashworth William
1987 274 pp. $12.95
Obtain from: Wayne State University Press, 5959 Woodward Ave., Detroit, MI 48202.

Law and the Lakes: Toward a Legal Framework for Safeguarding the Great Lakes Water Supply, The
See IIA. Our Great Lakes Heritage.

League of Women Voters Lake Michigan Inter-League Group Newsletter
By: Shirley Batchelder, editor
Quarterly newsletter
Obtain from: Mary Woodland, Co-Chairman of the Inter-League Group, 18345 Perth Ave., Homewood, IL 60430; (312)798-8280.

Littoral Drift
See IA. Boating.

Looking Back at Love Canal
By: John Deegan, Jr.
1987 In Environmental Science and Technology, Part 1, Vol. 21, No. 4, pp. 328-331 and Part 2, Vol. 21, No. 5, pp. 421-426
Obtain from: Environmental Science and Technology, American Chemical Society, 1155 16th St., NW, Washington, DC 20036.

Low Cost Shore Protection
1981 Free
Good introduction to shoreline protection. Includes graphics and is written in easy to understand terms.
Obtain from: U.S. Army Corps of Engineers, North Central Division, 536 S. Clark St., Chicago, IL 60605.

Maintaining Coastal Erosion Control Structures
By: Charles R. O'Neill Jr., et al.
1984 5 pp.
Obtain from: New York Sea Grant Institute—see address list.

Managing Coastal Erosion through Community Action
By: Jay Tanski, et al.
1986 8 pp.
This bulletin contains information useful to coastal property owners, local government officials, and regulatory agencies.
Obtain from: New York Sea Grant Institute—see address list.

Managing the Waters of the Great Lakes Basin
By: Council of Great Lakes Governors
1987 47 pp.
The Water Resources Management Committee reports to the Governors and Premiers of the Great Lakes State and provinces in this publication.
Obtain from: Council of Great Lakes Governors, 310 S. Michigan Ave., 10th Floor, Chicago, IL 60604.

Manual for Researching Historical Coastal Erosion, A
By: Kim Fulton
1981 56 pp.
Obtain from: California Sea Grant College Program—see address list.

Mapping Drainage Areas on Digital Maps from Boundary Coordinates
By: T.E. Croley, et al.
1986 Open file report
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Middle Holocene Dry Period in the Northern Midwestern United States: Lake Levels and Pollen Stratigraphy
By: M.G. Winkler
1986 Quarterly Research, Vol. 25, No. 2, pp. 235-250
Obtain from: Quaternary Research, Academic Press, Inc., Journal Division, 1250 6th Avenue, San Diego, CA 92101.

Models of a Biological Process for Mercury Decontamination
By: Ann Denise Christy
1986 TD-017 106 pp. $11.55
Describes a new process that detoxifies mercury using certain strains of bacteria. The details of this process are explained so that it can be most effectively used.
Obtain from: Ohio Sea Grant College Program—see address list.

Modernizing Local Governments—A Regional Government Approach to Managing the Environment
1973 Chapter 4 31 pp.
Obtain from: New York Sea Grant Institute—see address list.

Municipal Assistance in Financing a Group Erosion Abatement Project
By: Frank R. Lichtkoppler, et al.
1986 FS-037 2 pp. Free
This fact sheet explains some innovative methods of erosion control that neighborhood groups have implemented. Shows the cost saving results of group versus individual efforts.
Obtain from: Ohio Sea Grant College Program—see address list.

Natural Resources of Illinois: Introduction and Guide, The
By: R.D. Neely, et.al.
1987 224 pp. $10.00
Reprint from Special Publications, Vol. 6
Obtain from: Illinois Natural History Survey, 172 Natural Resources Bldg., 607 E. Peabody Dr., Champaign, IL 61820.

Near-Real Time Forecasting of Large Lake Water Supplies: A User's Manual
By: T. E. Croley II, et al.
1987 NOAA publication: TM ERL GLERL-61
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

New Approach for the Establishment of Fish Consumption Advisories, A
By: Milton Clark, et al.
1987 In Journal of Great Lakes Research, Vol. 13, No. 3 8 pp.
Presents an advisory approach that employs risk assessment techniques.
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

New York Great Lakes Water Levels Update
By: Charles R. O'Neil, editor
Occasional Free
This series reports on current water levels for shoreline land and facility owners, local officials, and the media on Lake Ontario and Lake Erie.
Obtain from: New York Sea Grant Extension, 405 Administration Bldg. State University College, Brockport, NY 14420.

New York State Supplement to Coastal Problems and Resource Management
See IIA. Our Great Lakes Heritage.

Newspaper clippings from the 5-county area in the Illinois-Indiana Lake Michigan region—1986 to Present
See IA. Boating.

1987 Directory of Environmental Agencies and Organizations in the Rochester-Genessee-Finger Lakes Region of New York State
By: Center for Environmental Information
1987 61 pp. $6.00
Obtain from: Center for Environmental Information, 33 S. Washington St., Rochester, NY 14608.

Nonagricultural Pesticides - Risks and Regulation
By: US General Accounting Office
1986 Report # GAO/RCED-86-97
$2.00 (25% discount for orders of 100 or more)
Obtain from: US General Accounting Office; (202)275-6241.

Northwest Indiana Environmental Action Plan
By: Robert Hilton
1987
Obtain from: Indiana Department of Environmental Management, 105 S. Meridian St., Indianapolis, IN 46225.

Occurrence and Rates of Chemical Biodegradation in Superior Harbor Water
By: Dinesh D. Vaishnav, et al.
1986 8 pp. In Journal of Great Lakes Research, Vol. 12, No.3, pp. 184-191
Obtain from: International Association of Great Lakes Research, Unviersity of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Ocean Coastal Erosion Protection: Judicial Allocation of Shoreowners' Rights and Responsibilities
By: Milton Kaplan
1984 100 pp.
Examines when homeowners are eligible for these erosion protection structures. Looks at Long Island problems, but applies elsewhere.
Obtain from: New York Sea Grant Institute—see address list.

Ohio Sea Grant Education Program: Development, Implementation, Evaluation, The
By: V. J. Mayer, et al.
1989 EP-075 155 pp. $8.00
Monograph describing ten years of aquatic education in Ohio with model for curriculum development and dissemination.
Obtain from: Ohio Sea Grant College Program—see address list.

Oil Spill
By: Rosanne W. Fortner, et al.
1980 EP-012 Teacher and Youth Guides $3.00
Obtain from: Ohio Sea Grant College Program—see address list.

On the Use of Biological Controls for Managing Great Lakes Disturbances
By: Flint Warren
1987 In Journal of Great Lakes Research, Vol. 13, No. 1, pp. 93-95
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Our Great Lakes Connection: A Curriculum Guide for Grades Kindergarten Through Eight
See IIA. Our Great Lakes Heritage.

Our Jewel, Our Monster—Facing Up to the Lake's Assault on our Shoreline
By: Jeff Lyon
October, 1987 Sunday Magazine, Chicago Tribune 16 pp.
Describes Chicago's eroding shoreline in 1987 and how city leaders coped with this problem. Contains photographs, diagrams, and a reader's survey.
Obtain from: Chicago Tribune, 435 N. Michigan Ave, Chicago, IL 60611; (312)222-3232.

Outfall Systems can Achieve Safe Effluent Levels
By: F.Y. Sorrell
1980 Journal Reprint 7 pp.
Obtain from: University of North Carolina Sea Grant College Program—see address list.

PCBs in Fish: A Problem?
By: V. J. Mayer, et al.
1988 EP-023 Teacher guide (25 pp.) and student workbook (10 pp.) $3.00
Discusses PCBs in Lake Erie and Ontario and how they affect fish consumption.
Obtain from: Ohio Sea Grant College Program—see address list.

Perspectives on Nonpoint Source Pollution, Proceedings of a National Conference, Kansas City, Missouri, 1985
1985 513 pp.
Obtain from: US Environmental Protection Agency, Office of Water Regulations and Standards, 230 S. Dearborn St., Chicago, IL 60604.

Pesticides—EPA's Formidable Task to Assess and Regulate their Risks
By: US General Accounting Office
1986 Report # GAO-RCED-86-125 $2.00 (25% discount for orders of 100 copies or more)
Obtain from: US General Accounting Office; (202)275-6241.

Phosphorus Diet for the Lower Lakes, A
By: U.S. Environmental Protection Agency
1986 21 pp.
Executive summary of the U.S. Task Force plan for phosphorus load reduction to Lake Erie, Lake Ontario and Saginaw Bay.
Obtain from: U.S. EPA, Region V, 230 S. Dearborn St., Chicago, IL 60604.

Phosphorus Release Processes in Nearshore Southern Lake Michigan
By: Michael A. Quigley, et al.
1986 Canadian Journal of Fisheries and Aquatic Sciences, Vol. 43, No. 6, pp. 1201-1207
Obtain from: Canadian Journal of Fisheries and Aquatic Sciences, Scientific Information and Publications Branch, 200 Kent St., Ottawa Ont. K1A 0E6, CANADA.

Physical Data for the Illinois Coastal Zone Management Development Program.
1975 Vol. 2
Obtain from: Illinois State Geological Survey, 124 Natural Resource Bldg., 615 E. Peabody Dr., Champaign, IL 61820.

Phytoplankton Composition, Abundance, and Distribution: Near Shore Lake Ontario and Oswego River and Harbor
By: Joseph C. Makarewicz
1987 In Journal of Great Lakes Research, Vol.13, No.1, pp. 56-64
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Plenary Paper 1: Exposure assessment: Computational Strategies Report of the Workshop on Hazard Assessment of Chemicals
By: B.J. Eadie, et al.
1985
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Pollution Control Facility Siting in Illinois
By: Office of Government and Community Affairs
1987
This booklet highlights the significant 1987 amendments to the pollution control act relating to the location of sanitary landfills and hazardous waste disposal sites.
Obtain from: Illinois Environmental Protection Agency, 2200 Churchill Rd, PO Box 19276, Springfield, IL 62706.

Pollution in Lake Erie: An Introduction
By: Carole P. Basehore, et al.
1980 EP-008 Teacher and youth guides $3.00
Obtain from: Ohio Sea Grant College Program—see address list.

Preliminary Investigation of Integrated Bluff Protection System for Lake Erie
By: Wayne Douglas Reynolds
1985 TB-012 144 pp. $15.00
Obtain from: Ohio Sea Grant College Program—see address list.

Primer Regarding Certain Provisions of the Illinois Groundwater Protection Act, A
By: Division of Public Water Supplies
1987 48 pp.
This booklet outlines and elaborates on chief provisions of the latest Illinois groundwater protection act.
Obtain from: Illinois Environmental Protection Agency, 2200 Churchill Rd., PO Box 19276, Springfield, IL 62794-9276.

Proceedings of the 1986 Green Bay/Fox River Research Symposium, The
By: H.J. Harris, et al.
1986 47 pp. Free
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Production of Planktonic Bacteria in Lake Michigan
By: D. Scavia, et al.
1986 In Limnology Oceanography, Vol. 31, No. 3, pp. 612-626
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Projected Increases in Municipal Water Use in the Great Lakes due to CO2-induced Climatic Change
By: Stewart J. Cohen
1987 In Water Resources Bulletin, Vol. 23, No. 1, pp. 91-101
Obtain from: Water Resources Bulletin, American Water Resources Association, 5410 Grosvenor Lane, Suite 220, Bethesda, MD 20814.

Putting PCBs in Perspective
See IB. Sportfishing.

Rebirth of Lake Erie: Recovering from Phosphorus Enrichment
By: Charles E. Herdendorf
1986 RS-051 8 pp. Free
This report explains how the lake's water and life forms increased in health and numbers as the phosphorus decreased.
Obtain from: Ohio Sea Grant College Program—see address list.

Recommendation for Shoreline Protection and Recreational Enhancement—Final Report
By: Chicago Shoreline Protection Commission
1988 90 pp. Free
This report makes recommendations on Lake Michigan waterfront revitalization projects.
Obtain from: Department of Planning, City Hall, 121 N. LaSalle St., Chicago, IL 60602; (312)744-3025.

Reducing Polluted Runoff from Commercial/Institutional Areas—Impacts and Best Management Practices
By: West Michigan Environmental Action Council
1987 30 pp. $0.75
One of a series of six booklets on controlling non-point pollution.
Obtain from: West Michigan Environment Action Council, 1432 Wealthy S.E., Grand Rapids, MI 49507; (606)451-3051.

Reducing Toxic Runoff from Construction Sites—Impacts and Best Management Practices
By: West Michigan Environmental Action Council
1987 11 pp. $0.40
One of a series of six booklets on controlling non-point pollution.
Obtain from: West Michigan Environment Action Council, 1432 Wealthy S.E., Grand Rapids, MI 49507; (606)451-3051.

Region 5 Hazardous Waste and Toxic Substances
1985 24 pp.
Obtain from: US Environmental Protection Agency, Great Lakes Program Office, 536 S. Clark St., Chicago, IL 60605; (312)785-2800.

Regional Land Use Policy Plan, An Element of the Comprehensive General Plan of Northeastern Illinois
1984 48 pp.
Obtain from: Northeastern Illinois Planning Commission, 400 W. Madison St., 2nd Floor, Chicago, IL 60606; (312)454-0400.

Regional Water Supply Plan, an Element of the Comprehensive General Plan of Northeastern Illinois
1978 34 pp.
Obtain from: Northeastern Illinois Planning Commission, 400 W. Madison St., 2nd floor, Chicago, IL 60606; (312)454-0400.

Regulation of Water Quality in Lake Michigan: Report of the Food Web Workshop
By: James F. Kitchell, et al.
1988 In Journal of Great Lakes Research, Vol. 14, No.1, 7 pp.
Explains how the salmon, alewife, and zooplankton food web is a major cause of increased water clarity in the summer.
Obtain from: International Association of Great Lakes Research, The University of Michigan, 2200 Bonisteel Blvd, Ann Arbor, MI 48109.

Relative Cancer Risks of Chemical Contaminants in the Great Lakes
See IB. Sportfishing.

Remedial Action Plans for Areas of Concern
By: International Joint Commission
1987 Free
This brochure describes the process of identifying, planning and implementing remedial measures for the 42 "Areas of Concern."
Obtain from: International Joint Commission, PO Box 32869, Detroit, MI 48323; (313)226-2170.

Remote Sensing and Oceanographic Equipment Technology: Some Present Systems and Future Needs
By: Peter Cornillon, et al.
1985 Journal reprint 19 pp. $4.00
Obtain from: Massachusetts Institute of Technology Sea Grant College Program—see address list.

Remote Sensing of Tidal Chlorophyll—A Variation in Estuaries
By: Glenn P. Catts, et al.
1985 Journal reprint Free to California residents (non-residents multiple copies $1.00 each)
Obtain from: California Sea Grant College Program—see address list.

Research Team Examining Pollution Effects in the Calumet Area
By: Linnea Eschenlohr
2 pp. Free
Describes a study undertaken to document the extent and effect of Lake Calumet pollution on South Chicago.
Obtain from: Illinois State Water Survey, 2204 Griffith Dr., Champaign, IL 61820.

Review of Containment and Collection Devices for Oil Spills, A
By: James E. Glattly
1979 NYSGI-UI-79-003, pp. 9-10
Obtain from: New York Sea Grant Institute—see address list.

Review: Phosphorus-Plankton Dynamics and Phosphorus Cycling in Aquatic Systems, A
By: S.J. Tarapchak, et al.
1986 No. NOAA TM ERL GLERL-60
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Role of Agencies, Scientists, and the Public in Planning Dredged-Sediment Disposal, The
By: H. Bokuniewicz, et al.
1982 Journal reprint 5 pp.
Obtain from: New York Sea Grant Institute—see address list.

Role of Taste in Food Selection by Freshwater Zooplankton, The
By: William De Mott
1986 RS-046 7 pp.
Discusses the ability of certain zooplankton to detect nutritious food which allowed them to survive better than other zooplankton, thereby helping ecologists better understand the food web.
Obtain from: Ohio Sea Grant College Program—see address list.

Seiche, The
See IA. Boating.

Shoreline Erosion along the Indiana Coast of Lake Michigan
1979 41 pp.
Obtain from: Indiana Department of Natural Resources, 612 State Office Building, Indianapolis, IN 46204.

Shoreline Erosion—Special Problems for Realtors
By: Leslie Y. Lin
1976 MICHU-SG-76-302 Journal reprint 2 pp.
Obtain from: Michigan Sea Grant College Program—see address list.

Shoreline Erosion: Questions and Answers
By: Michigan Sea Grant
1985 14 pp. MICHU-SG-85-511 $0.50
Explains the natural erosion process and provides practical advice on how to control shoreline erosion.
Obtain from: Michigan Sea Grant College Program—see address list.

Shoreline Protection Structures
By: Frank Lichtkoppler
1981 FS-011 2 pp.
Obtain from: Ohio Sea Grant College Program—see address list.

Slip Sliding Away: Erosion on Lake Superior's North Shore
By: Dale Baker, et al.
1987 4 pp. Free
This describes a 1986 erosion survey of 199 coastal property owners in three counties on Minnesota's North Shore.
Obtain from: Minnesota Sea Grant Program—see address list.

Sources of Information about Great Lakes Water Levels and Erosion
By: Dale Baker
1987 2 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Southeastern Nearshore Lake Michigan: Impact of the Donald C. Cook Nuclear Plant
By: Ronald Rossman, editor
1986 Publication 22 432 pp.
Obtain from: Center for Great Lakes and Aquatic Sciences, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

State and Federal Interactive Relationship on Water Pollution Regulatory Systems
By: Prince Collins Chukobasih
1981 29 pp.
Obtain from: Mississippi-Alabama Sea Grant Consortium—see address list.

State of the Great Lakes: Annual Report for 1988-89
By: Michigan Department of Natural Resources
1989 40 pp.
Obtain from: Michigan Department Natural Resources, The Office of the Great Lakes, PO Box 30028, Lansing, MI 48909.

Stratigraphic Study of Beach Features on the Southwestern Shore of Lake Michigan, A
By: Curtis E. Larsen
1985 31 pp.
New evidence of the holocene lake level fluctuations.
Obtain from: Illinois State Geological Survey, 463 Natural Resources Building, 615 East Peabody Dr., Champaign, IL 61820.

Structural Methods for Controlling Coastal Erosion
By: Charles R. O'Neill, Jr.
1986 28 pp.
Gives coastal landowners, developers, and government officials a means to determine when and what erosion control measures might be applicable to specific coastal conditions.
Obtain from: New York Sea Grant Institute—see address list.

Study of Legal, Institutional and Financing Issues Relating to Implementation of Lake Michigan Shore Protection in Illinois, A
By: Chapman and Cutler
1979 138 pp.
Obtain from: Illinois Department of Transportation, Division of Water Resources, 310 S. Michigan, Rm. 1606, Chicago, IL 60611; (312)793-5948.

Study of Michigan Caspian Tern and Double Crested Cormorant Colonies in Lake Huron, Michigan, and Superior
By: Hiroko Kurita, et al.
1987
Birds from two toxic hot spots, Green Bay and Saginaw Bay, and less contaminated areas all showed widespread embryonic deformities.
Obtain from: Michigan Department of Natural Resources, Office of the Great Lakes, PO Box 30028, Lansing, MI 48109.

Superior Pursuit: Facts about the Greatest Great Lake
1989 (revised) Free
All about the big lake—its size, geology, water quality, etc.
Obtain from: Minnesota Sea Grant Program—see address list.

Survey of Status of Public Involvement in Remedial Actions Plans Around the Great Lakes
By: The Center for the Great Lakes
1987
This inventory of activities and people involved with each of the Great Lakes 42 "areas of concern" shows consensus building is occurring due to involvement with remedial action plans.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave., #1408 Chicago, IL 60611, Attn: Publications; (312)645-0901.

Surveys of Trace Contaminants in the St. Clair River
By: C.H. Chan, et al.
1986 Science Series No. 158 10 pp.
Obtain from: Publications Office, Environment Canada, Ontario K1A OE7, CANADA.

Temporal Distribution of Fecal Pollution Indicators and Opportunistic Pathogens at a Lake Ontario Bathing Beach
By: James P. Sherry, et al.
1986 In Journal of Great Lakes Research, Vol. 12, No. 3 pp. 154-160
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Tests and Standards for Drinking Water
By: Barbara Liukkonen
1989 8 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Toxaphene: Status in the Great Lakes
By: John R. Sullivan
1985 39 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Toxic Chemicals in the Great Lakes Basin Ecosystem: Some Observations
By: Thomas Muir, et al.
1987 51 pp. Free
Muir, an economist, and Sudar, a sociologist, synthesized data from 323 studies and found links between toxic chemicals and human health threats in the Great Lakes.
Obtain from: Environment Canada, Canadian Government Publishing Centre, Ottawa, Ontario K1A 0S9, CANADA.

Toxic Chemicals: What They Are—How Do They Affect You
1985 3 pp.
Obtain from: US Environmental Protection Agency, Great Lakes Program Office, 536 S. Clark St., Chicago, IL 60605; (312)353-2117.

Toxicity of Toxaphene to Bosmina Longirostris and Daphnia Sp. (Crustacea)
By: Alexander J. Novak, et al.
1986 In Bulletin of Environmental Contaminant Toxicology, Vol. 37, pp. 719-721
Obtain from: The National Fisheries Center - Great Lakes, 1451 Green Rd., Ann Arbor, MI 48105.

Trace Metal Concentrations in the Offshore Waters and Sediments of Lake Superior
By: Ronald Rossman
1986 122 pp.
Obtain from: University of Michigan, Great Lakes Research Division, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Tribute to the Great Lakes, A
By: Michigan Natural Resources Magazine
1986
Obtain from: Michigan Department of Natural Resources, PO Box 30034, Lansing, MI 48909.

Twine Line
See IA. Boating.

Unfulfilled Promises—Summary: A Citizens Review of the International Great Lakes Water Quality Agreement
By: Great Lakes United
1987 12 pp. $2.00
This report briefly explains the 1978 Great Lakes Water Quality Agreement, the public hearings, the findings, and the recommendations for improvements.
Obtain from: Great Lakes United, 24 Agassiz Circle, Buffalo, NY 14124; (716)886-0142.

Upwellings
See IA. Boating.

Urban Effects on Water Quality and Quantity Conference Proceedings
By: Wendy Blake-Coleman, editor
1983 361 pp.
Obtain from: Illinois Department of Energy and Natural Resources, 325 W. Adams, Springfield, IL 62704-1892; (217)785-2800.

Use of Thematic Mapper Data to Assess Water Quality in Green Bay and Central Lake Michigan
By: Richard Lathrop, Jr., et al.
1986 10 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

User's Guide to the Littoral Environment Observation (LEO) Retrieval System, A
By: Ann R. Sherlock, et al.
1987
CED program was established to recruit volunteer observers of coastal wave information. The LED Retrieval System is computer-based and performs a variety of data retrieval and analysis.
Obtain from: US Army Corps of Engineers Waterways Experiment Station, PO Box 631, Vicksburg, MS 39180-0631; (601)634-2571.

Using Enhanced Landsat Images for Calibrating Real-time Estuarine Water-Quality Models
By: J.M. Hill, et al.
1980 Journal reprint 4 pp.
Obtain from: Florida Sea Grant College Program—see address list.

Using the Lake Trout as an Indicator of Ecosystem Health
By: T.R. Marshall, et al.
1987 Technical Report, Vol. 49 35 pp.
This is an application of the dichotomous key.
Obtain from: Great Lakes Fishery Commission, 1451 Green Rd., Ann Arbor, MI 48105.

Vegetation and Its Role in Reducing Great Lakes Shoreline Erosion
By: Michigan Sea Grant
1988 42 pp. MICHU-SG-88-700 $0.50
Provides information and guidelines on how to use vegetation to help stabilize and preserve Great Lakes shorelines.
Obtain from: Michigan Sea Grant College Program—see address list.

Water Diversion and Great Lakes Institutions: A Report to the Governors and Premiers of the Great Lakes States
1985 46 pp.
Obtain from: Council of the Great Lakes Governors.

Water Level Changes: Factors Influencing the Great Lakes
By: Great Lakes Commission
1986 14 pp. $1.25/copy
Obtain from: Great Lakes Commission, The Argus II Buildling, 400 S. Fourth St., Ann Arbor, MI 48103.

Water Quality and Pollution Control in Michigan: 1986 Report
By: Michigan Department of Natural Resources
1986 132 pp.
Obtain from: Michigan Department of Natural Resources, Great Lakes and Environmental Assessment Section, PO Box 30028, Lansing, MI 48909.

Water-Related Teaching Activities
By: Herbert Cook, et al.
1977 149 pp. $ 8.00
Teaches students about water resources. Includes a reference list of films on water resources and water equipment.
Obtain from: ERIC Center, College of Education, The Ohio State University, 1200 Chambers Rd., Columbus, OH 43212.

Water Resources Data, Indiana, Water Years 1985
By: U.S. Department of Interior, Geological Survey
1987 306 pp.
Obtain from: US Geological Survey, Water Resources Division, 5957 Lakeside Blvd., Indianapolis, IN 46278.

World Conference on Large Lakes, Mackinac
By: Katie Wolf
1986 111 pp.
Recommends action for toxic contamination.
Obtain from: Lewis Publishers, Inc., 121 S. Main St., PO Box 519, Chelsea, MI 48118; (313)475-8619.

Zooplankton of the Great Lakes—A Guide to the Identification and Ecology of the Common Crustacean Species
By: Mary D. Balcer, et al.
1984 175 pp.
Obtain from: University of Wisconsin Press, 114 N. Murray St., Madison, WI 53715.

IIIB. Wetlands

Acquisition of Development Rights in the Coastal Zone: An Alternative to Wetlands Regulation, The
By: David M. Ascher
1979 66 pp.
Obtain from: New York Sea Grant Institute—see address list.

Action for the Eighties ... and Beyond - Vol. II, A Strategic Plan for Illinois Wildlife Resources, FY87-FY91
By: Illinois Department of Conservation
1986 17 pp.
Sections on waterfowl and furbearers will aid in teaching about wetlands.
Obtain from: Office of Field Operations, Division of Wildlife Resources, 600 N. Grand Ave. W., Springfield, IL 62706

Action for the Eighties ... and Beyond, Vol. III, A Strategic Plan for Illinois Heritage, Endangered and Threatened Species, FY87-FY91
By: Illinois Department of Conservation
1986 9 pp.
This is of interest to teachers, because many of these species are found in wetlands.
Obtain from: Office of Field Operations, Division of Natural Heritage, 600 N. Grand Ave., W., Springfield, IL 62706.

Amphibians of Illinois
By: Paul W. Parmalee
1954
Identifies all known Illinois species of frog, toads, and salamanders.
Obtain from: Illinois State Museum Society, Spring and Edwards Streets, Springfield, IL 62706.

Aquatic Plants of Illinois
By: G. S. Winterringer, et al.
1977

Illustrated manual with identification keys.
Obtain from: Illinois State Museum Society, Spring and Edwards Streets, Springfield, IL 62706.

Aquatic Plants of Lake Erie Region
1985 $1.00

Includes illustrations and descriptions of the four general plant types.
Obtain from: Ohio Sea Grant College Program—see address list

Assessment of Wetland Resources: Manual for Workshop
By: John G. Lyon, et al.
1983 MICHU-SG-83-600 21 pp.

Obtain from: Michigan Sea Grant College Program—see address list.

Atlas of the Spawning and Nursery Areas of Great Lakes Fishes
1982

Obtain from: U.S. Fish and Wildlife Service, Office of Biological Services, 18th and C Streets, NW, Washington, DC 20240.

Bulletin—Society of Wetland Scientists
By: Lyndon C. Lee
Quarterly newsletter

Obtain from: Society of Wetland Scientists, Office of Wetland Protection, 401 M. St. SW, Washington, DC 20460; (202)382-5299.

Chicagoland Pond Life
By: W. J. Beecher
2 part fact sheet.

Obtain from: Chicago Academy of Sciences, 2001 N. Clark St., Chicago, IL 60614; (312)549-0606.

Coastal Wetlands
By: Harold Prince editor
1985 286 pp. $39.95

Obtain from: Lewis Publishers, Inc., 121 S. Main St., PO Box 519, Chelsea, MI 48118; (313)475-8619.

Coastal Wetlands along Lake Ontario and St. Lawrence River in Jefferson County, New York
By: James W. Geis, et al.
1977 130 pp.

Obtain from: New York Sea Grant Institute—see address list.

Constructed Wetlands for Wastewater Treatment—June 1988 Conference Proceedings
1988

Information on wetlands as waste treatment systems, including papers on design, construction, operation, and monitoring.
Obtain from: Tennessee Valley Authority, Waste Management Program, 2D44 Old City Hall, Knoxville, TN 37902.

Creation of Wetland Habitat in Northeastern Illinois
By: Donald L. Hey, et al.
1982 119 pp.

Obtain from: Illinois Department of Energy and Natural Resources, 325 W. Adams, Springfield, IL 62704-1982; (217)785-2800.

Density and Distribution of Larval Fishes in Pentwater Marsh: A Coastal Wetland on Lake Michigan
By: Sara L. Chubb, et al.
MICHU-SG-87-301 Free

Study of larval fish abundance in densely vegetated bayous and open-water areas of Lake Michigan.
Obtain from: Michigan Sea Grant College Program—see address list.

Developing Criteria for the Evaluation of Wetlands
By: Joseph A. Neafsey
1974 43 pp.

Obtain from: New York Sea Grant Institute—see address list.

Drowning Pool, The
By: Lee Casebere
1987 In Outdoor Indiana magazine 4 pp.

Describes the pitcher plant, which eats insects and is found in Indiana's wetland bogs.
Obtain from: Indiana Department of Natural Resources, Public Information Office, 612 State Office Building, Indianapolis, IN 46204.

Ecology of Coastal Marshes of Western Lake Erie: A Community Profile, The
By: Charles E. Herdendorf
1987 171 pp.

Deals with marine and freshwater habitats of ecological importance to Lake Erie.
Obtain from: U.S. Fish and Wildlife Service, 1010 Gause Boulevard, Slidell, LA 70458.

Ecology of Lake St. Clair Wetland: A Community Profile, The
By: Charles E. Herdendorf, et al.
1986 187 pp.

Obtain from: U.S. Fish and Wildlife Service, National Wetlands Research Center, 1010 Gause Blvd., Slidell, LA 70458.

Ecosystem Study of the Indiana Dunes National Lakeshore, Vol. I
By: M. Reshkin, et al.
1981 295 pp.
Obtain from: Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304; (219)926-7561.

Effects of De-icing Salts on Water Chemistry and Vegetation in Pinhook Bog, Indiana Dunes National Lakeshore, The
By: Douglas A. Wilcox
1982 139 pp.
Obtain from: Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304; (219)926-7561.

Effects of Lake Michigan Water Levels on Wetland Soil Chemistry and Distribution of Plants in the Straits of Mackinac
By: John G. Lyon, et al.
1986 MICHU-SG-86-303 9 pp. Free
This journal reprint shows the effects of long-term water level changes on Lake Michigan's wetlands based on measurements taken from aerial photos (1938-1980).
Obtain from: Michigan Sea Grant College Program—see address list.

Endangered Species
Monthly Technical Bulletin
Obtain from: U.S. Fish and Wildlife Service, Department of Interior, 18th and C Streets, NW, Washington, DC 20240.

Environmental Impacts of the Aquatic Disposal of Dredged Material: Fact and Fancy
See IIIA. Great Lakes Urban and Natural Ecology.

Fish and Wildlife Resources of the Great Lakes Coastal Wetlands within the United States—Volume One: Overview
By: Charles E. Herdendorf, et al.
1980 Available as a loan copy 471 pp.
Obtain from: National Sea Grant Depository—see address list.

Fresh-water Mussels of Illinois, The
By: Paul W. Parmalee
1967
Obtain from: Illinois State Museum Society, Spring and Edwards Streets, Springfield, IL 62706.

Getting More Bucks for Ducks—Private Conservation Organization Supports Indiana's Waterfowl
By: Tom Sporre
1987 Outdoor Indiana 5 pp.
Article explains how Ducks Unlimited is using their monies to match State dollars to purchase wetland habitats for waterfowl.
Obtain from: Indiana Department of Natural Resources, Public Information Office, 612 State Office Building, Indianapolis, IN 46204.

HELM: Happenings and Educational Activities Around Lake Michigan, The
See IA. Boating.

Human Interference with Natural Water Level Regimes in the Context of Other Cultural Stresses on Great Lakes Wetlands
By: Nancy J. Patterson, et al.
1985 31 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Illinois Natural Heritage Conservation Education Kit IV
By: Sally Stone, et al.
1984 64 pp. Includes 22 x 17 black and white poster
Obtain from: Illinois Department of Conservation, 524 S. Second, Springfield IL 62706.

Importance of Reserve Size in the Conservation of Prairie and Wetland Butterfly Communities, The
By: Ronald J. Panzer
1984 72 pp.
Obtain from: Northeastern Illinois University, Chicago, IL; (312)583-4050.

Increasing Our Wetland Resources—Symposium on Wetlands Creation and Restoration
1988 Proceedings
Papers on implementation of projects to create and restore wetlands and on the politics involved in this process.
Obtain from: Academic libraries or National Wildlife Federation, Corporate Conservation Council, 1412 16th St. N.W., Washington, DC 20240.

Individual Economic Incentives, the Tax System and Wetland Protection Policy: A Study of Returns to Wetland Drainage
By: Richard Barrows, et al.
1982 26 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Lake Michigan Monitor
See IIA. Our Great Lakes Heritage.

Line of Tradition, A
By: Larry Lehman
November 1987 In Outdoor Indiana
This article describes the furtrapping industry in Indiana as one of the wetlands' important contributions. Explains the Indiana Department of Natural Resources' role in managing it.
Obtain from: Indiana Department of Natural Resources, Public Information Office, 612 State Office Building, Indianapolis, IN 46204.

Liquid Assets
By: Fred Tetreault
March 16, 1987 In Outdoor Highlights 6 pp.
Explains the Illinois state wetlands inventory and mapping program that was completed in Decmeber 1988. Lake Michigan area wetlands inventory is also available.
Obtain from: Public Information Office, Illinois Department of Conservation, 524 S. Second St., Springfield, IL 62707; (217)782-7454.

Littoral Drift
See IA. Boating.

Marsh Development for Wildlife
Obtain from: Indiana Department of Natural Resources, Division of Fish and Wildlife, 607 State Office Building, Indianapolis, IN 46204.

National Symposium on Wetland Hydrology September 1987—The Proceedings
By: Association of State Wetland Managers, Inc.
1988
Obtain from: Association of State Wetland Managers, Inc., PO Box 2463, Bernie, NY 12023.

Newspaper clippings from the 5-county area of the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

Plants of Illinois Dunesland
By: Elizabeth T. Lunn
1982 118 pp.
Contains excellent color photos and descriptions of all the plants found in Illinois Beach State Park.
Obtain from: The Illinois Dunesland Preservation Society, 2004 North Ash St., Waukegan, IL 60087.

Pond Life: A Guide to Common Plants and Animals of North American Ponds and Lakes
By: George K. Reid
1967 160 pp.
Obtain from: Local library or book store.

Prehistoric and Historic Wetland Heritage of the Upper Great Lakes
By: C. Nicholas Raphael
1987 In Michigan Academician, Vol. 19, No. 3, pp. 331-365
Obtain from: Michigan Academy of Science, Arts, and Letters, Toumy House, 2117 Washtenaw Ave., Ann Arbor, MI 48104.

Public Notices of the Army Corps of Engineers
By: Army Corps of Engineers, Chicago District
Ongoing 2-8 pp. Free
Contain information on activities in wetlands where a Corps permit is needed. Good way to find out about wetlands in Chicago region.
Obtain from: US Army Corps of Engineers, Chicago District, 219 S. Dearborn St., Chicago, IL 60604-1797.

Remote Sensing of Coastal Wetlands
By: M.A. Hardisky, et al
1986 Journal Reprint 8 pp. $1.00
Shows how detailed satellite pictures are helping to detect the types and amounts of vegetation in wetlands.
Obtain from: University of Delaware Sea Grant College Program—see address list.

Role of Wetlands in Nutrient Cycling in the Great Lakes Region, The
By: Craig N. Spencer, et al.
1984 NCU-W-84-001, pp. 177-202
Obtain from: University of North Carolina Sea Grant College Program—see address list.

Seasonal Dynamics in Small Wetland Pools
By: Shirley McClellan
1986 1 p.
Obtain from: Natural History Survey, Illinois Department of Energy and Natural Resources, Natural Resources Building, 607 E. Peabody Dr., Champaign, IL 61820.

Seiche, The
See IA. Boating.

Selected Proceedings of the Midwest Conference on Wetland Values and Management
By: Brandt Richardson
1981 660 pp.
Obtain from: Minnesota Natural Resource Department—Water Division, 500 Lafayette Rd., St. Paul, MN 55155.

Strategies for Protection and Management of Flood Plain and Other Riparian Ecosystems
By: Roy R. Johnson, et al.
1978 41 pp.
Obtain from: U.S. Department of Agriculture Forest Service.

Streams and Wetlands—A Resource Worth Preserving
By: The Northern Illinois Planning Commission
1987 17 pp. $2.00
Details some detrimental policies and development practices in a stream floodplain in northeastern Illinois. Also identifies steps to reverse the trend.
Obtain from: Northern Illinois Planning Commission, 400 W. Madison St., Chicago, IL 60606.

Tamarack Bogs
By: W. J. Beecher
Explains what the bogs are and how to identify their plant growth.
Obtain from: Chicago Academy of Sciences, 2001 N. Clark St., Chicago, IL 60606.

Transport and Deposition of Sediment in Old Woman Creek Estuary of Lake Erie
By: David B. Buchanan
1983 TB-010 198 pp. $21.00
Obtain from: Ohio Sea Grant College Program—see address list.

Twine Line
See IA. Boating.

Upwellings
See IA. Boating.

Vanishing Wonderlands
By: Carol Swinehart and Harold Prince
Nov.-Dec. 1986 Michigan Natural Resources Magazine
Obtain from: Michigan Natural Resources Magazine, Dept. of Natural Resources, Box 30034, Lansing, MI 48909.

Vegetation of the Lake Michigan Shoreline in Wisconsin, The
By: P.J. Salamun, et al.
1978
Good reference document though technical in nature.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Wading Into Wetlands
By: Judy Braus, editor
1986 65 pp.
A Naturescope booklet.
Obtain from: National Wildlife Federation, 1412 16th St. N.W., Washington, DC 20036-2266.

Wetlands Affect You and Me
Teacher/leader and member guide booklets with numerous teaching activities. Basic introductory material.
Obtain from: 4-H Youth Programs, Cooperative Extension Service, MSU Bulletin Office, PO Box 6640, East Lansing, MI 48826.

Wetlands and Water Quality: A Citizen's Handbook on How to Review and Comment on Section 404 Permits
By: Gerald A. Poulson
1985 47 pp.
Obtain from: Lake Michigan Federation, 8 S. Michigan Ave., # 2010, Chicago, IL 60603; (312)263-5550.

Wetlands Component of the Statewide Comprehensive Outdoor Recreation Plan
By: Marvin Hubbell
1988 38 pp.
Obtain from: Wetlands Program, Illinois Department of Conservation, 524 S. Second St., Springfield, IL 62701-1787; (217)782-3215.

Wetlands - Indiana's Endangered Natural Resources
By: Indiana Department of Natural Resources
1988
Contains information on Indiana's wetland resources and the regulations and other programs that protect them.
Obtain from: Indiana Department of Natural Resources, Public Information Office, 612 State Office Building, Indianapolis, IN 46204; (317)232-4670.

Wetlands on the Wane
By: Robert Rolley
June 1987 Outdoor Indiana 4 pp.
Describes the remaining Indiana wetlands and how the Indiana Department of Natural Resources is protecting them.
Obtain from: Indiana Department of Natural Resources, Public Information Office, 621 State Office Building, Indianapolis, IN 46204; (317)232-4670.

Wetlands Package
$1.50
Includes general information on Michigan wetlands for elementary and middle school teaching.
Obtain from: Michigan United Conservation Club, PO Box 30235, Lansing, MI 48907.

Wildflowers of the Great Lakes
By: Roberta Simonds, et al.
96 pp. $5.95
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

IIIC. Wildlife and Waterfowl

Abundance and Distribution of the Birds of Ohio
By: B.G. Peterjohn, et al.
1987 Notes, No. 19 53 pp. $6.00
Obtain from: Ohio Biological Survey, 980 Biological Science Bldg., 484 W. 12th Ave., Columbus, OH 43210.

Action for the Eighties ... and Beyond -Vol. I, A Strategic Plan for Illinois Fisheries Resources, FY87-FY91
See IB. Sportfishing.

Alewife Survival during the First Growth Season in Southeastern Lake Michigan
By: Pamela J. Mansfield, et al.
1986 Canadian Journal of Fisheries and Aquatic Science, Vol. 44, No. 7, pp. 1318-1326
Obtain from: The Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Age and Growth of Walleye in the New York Waters of Lake Erie, The
See IB. Sportfishing.

Amphibians of Illinois
See IIIB. Wetlands.

Annual Report—John G. Shedd Aquarium: The Ocean by the Lake
The Shedd Aquarium contains several display tanks and related information about Great Lakes fishes.
Obtain from: John G. Shedd Aquarium, 1200 S. Lake Shore Dr., Chicago, IL 60605.

Annual Report of the Sea Lamprey Control Centre for 1985
By: Canada Department of Fisheries and Oceans
1986 131 pp.
Obtain from: Sea Lamprey Control Centre, Sault Ste. Marie, Ont. P6A 1PO.

Atlas of the Spawning and Nursery Areas of Great Lakes Fishes
See IB. Sportfishing. (Maps and Charts)

Attachment Sites of Parasitic Lampreys: Comparisons Among Species
By: Philip A. Cochran
1986 In Environmental Biology of Fishes, Vol. 17, No. 1, 71-79
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Behavioral Stock-Isolating Mechanisms in Great Lakes Fishes with Special Reference to Homing and Site Imprinting
By: Ross M. Horrall
1981 Journal Reprint 16 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Birds of South Bass Island
1985 GS-015 12 pp.
Birdwatching on Lake Erie.
Obtain from: Ohio Sea Grant College Program—see address list.

Building and Management of Dredged Material Islands for Use by Wildlife in North America
By: Mary C. Landin
1980 Journal Reprint 28 pp.
Obtain from: Texas Sea Grant Program—see address list.

Changes in Growth and Maturity of Walleyes Associated with Stock Rehabilitation in Western Lake Erie, 1964-1983
See IB. Sportfishing.

Competition Among Juveniles of Coho Salmon, Brook Trout, and Brown Trout in a Laboratory Stream, and Implications for Great Lakes
By: Kurt Fausch., et al.
1986 In Transactions of the American Fisheries Society, Vol 115., No. 3., pp. 363-381
Obtain from: American Fisheries Society, 5410 Grosvenor Lane, Suite 110, Bethesda, MD 20814.

Contaminant Trends in Lake Trout from the Upper Great Lakes
See IB. Sportfishing.

Contaminants in Fish from Great Lakes Harbors and Tributary Mouths
See IB. Sportfishing.

Controlling the Sea Lamprey
By: Robert Lorantas
1986 Pennsylvania Angler, Vol. 55, No. 8, pp. 4-5
Obtain from: Pennsylvania Angler, Fish Commission, Box 1673, Harrisburg, PA 17105-1673.

Crisis of Wildlife Habitat in Illinois Today, The
By: David Kenney, et al.
1985 26 pp.
Obtain from: Illinois Wildlife Habitat Commission.

Daily Timing of Lamprey Attacks, The
By: Philip A. Cohran
1986 Environmental Biology of Fishes, Vol. 16., No. 4., pp. 325-329
Obtain from: University library or Environmental Biology of Fishes, Kluever Academic Publishers, PO Box 17, 3300 AA Dordrecht, The Netherlands.

Determining the Age of Fish
1984
Describes various characteristics of fish that can be used to determine age.
Obtain from: Cooperative Extension Service, Michigan State University Bulletin Office, PO Box 6640, East Lansing, MI 48824.

Dynamics of Lake Michigan Natural Phytoplankton Communities in Continuous Cultures Along a Si:P Loading Gradient
By: S.S. Kilham, et al.
1986 Canadian Journal of Fisheries and Aquatic Sciences, Vol. 43, No. 2, 351-365 pp.
Obtain from: Canadian Journal of Fisheries and Aquatic Sciences, Scientific Information Board, 200 Kent St., Ottawa, Ont. K1A 0E6 CANADA.

Dynamics of Reproduction by Hatchery Lake Trout on Man-made Spawning Reef
See IB. Sportfishing.

Effect of Food Abundance on Larval Lake Whitefish
By: W.W. Taylor, et al.
1984 9 pp.
This presents data and discusses implications from laboratory study on larval lake whitefish growth and survival in relation to prey abundance.
Obtain from: National Sea Grant Depository—see address list.

Endangered Species
See IIIB. Wetlands.

Entomology and Water
By: H. David Greene
1980 2 pp.
This fact sheet is part one of a 6 part set of aquatic activities for youth.
Obtain from: New York Sea Grant Institute—see address list.

Exploring Freshwater Fisheries, A Fish and Fishing Project Activities Guide
See IB. Sportfishing.

Feeding Ecology and Vertical Migration of Adult Alewives in Lake Michigan
See IB. Sportfishing.

Fish Aquariums
By: H. David Greene
1980 8 pp.
This is one of a 6 part set of aquatic activities for youth.
Obtain from: New York Sea Grant Institute—see address list.

Fish in Lake Michigan: Distribution of Selected Species
See IB. Sportfishing.

Fish of Lake Michigan
See IB. Sportfishing.

Fish Tails—Trout? Salmon?
See IB. Sportfishing.

Fisheries Education: From the Great Lakes to the Sea
See IB. Sportfishing.

Fishes of Ohio
See IB. Sportfishing.

Fishes of Wisconsin
See IB. Sportfishing.

Food of Trout and Salmon in Lake Ontario
See IB. Sportfishing.

Forage Fishes and Their Salmonid Predators in Lake Michigan
See IB. Sportfishing.

Fresh-Water Mussels of Illinois, The
See IIIB. Wetlands.

Future of Waterfowl Habitats in the Canadian Lower Great Lakes Wetlands, The
By: A.A. Crowder, et al.
1988 In Journal of Great Lakes Research, Vol. 14, No.1
Reviews the negative impact of human activity on waterfowl habitats.
Obtain from: International Association of Great Lakes Research, 2200 Bonisteel Blvd, Ann Arbor, MI 48109.

Great Lakes Fishes—4-H Fact Sheets
See IB. Sportfishing.

History of the Great Waterfowl Flyways Through the Great Lakes
By: Charles and Sandy Herdendorf
1985 RS-024 13 pp. Free
Covers the waterfowl's history and description of the migratory routes used by North American waterfowl.
Obtain from: Ohio Sea Grant College Program—see address list.

Illinois Coastal Zone Management Program: Component Study of Biological Communities
See IB. Sportfishing.

Incidence of Deformities in Chironomus sp. from Port Hope Harbour, Lake Ontario, The
See IIIA. Great Lakes Urban and Natural Ecology.

Indiana Fish and Wildlife Code Book
See IB. Sportfishing.

Indiana Fish and Wildlife Regulations
See IB. Sportfishing.

Indiana Waterfowl Stamp Program
Obtain from: Indiana Department of Natural Resources, Division of Fish and Wildlife, 607 State Office Bldg., Indianapolis, IN 46204.

Indicators of the Status of Cold Water Predator-Prey Systems
See IB. Sportfishing.

Interactions of 2, 3, 7, 8, TCDD with Immune Responses of Rainbow Trout
See IB. Sportfishing.

International Convention on Great Lakes Fisheries
See IB. Sportfishing.

Investigating the Great Lakes Environment: Unit Two: Great Lakes Fishing in Transition
See IB. Sportfishing.

Lake Erie's Artificial Reef Program
By: David O. Kelch, et al.
1986 4 pp.
Description of the Ohio's artificial reef program, and public opportunities associated with it.
Obtain from: Ohio Sea Grant College Program—see address list.

Lake Huron 1980 Intensive Survey, Summary Report. Report to the Surveillance Work Group
See IIA. Our Great Lakes Heritage.

Lake Huron Rotifer and Crustacean Zooplankton, April-July, 1980
By: Marlene S. Evans
1986 In Journal of Great Lakes Research, Vol. 12., No. 4, pp. 281-292
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Lake Trout: Live and Let Live
See IB. Sportfishing.

Lake Trout Returns to Lake Ontario, The
See IB. Sportfishing.

Lamprey Barrier: a Story of Persistence
See IB. Sportfishing.

Life History, Abundance, and Potential Harvest of Carp from Michigan Waters of the Great Lakes
See IB. Sportfishing.

Limnological and Fisheries Studies of the St. Marys River, Michigan
By: U.S. Department of the Interior
1986 764 pp.
Obtain from: U.S. Department of the Interior, Fish and Wildlife Service, Federal Building, Twin Cities, MN 55111.

Long-term Changes in the Macrobenthos of Southern Lake Michigan
By: T.F. Nalepa
1987 In Canadian Journal of Fisheries and Aquatic Science, Vol. 44, No. 3, pp. 515-524
Obtain from: Great Lakes Environmental Research Laboratory, 2205 Commonwealth Blvd., Ann Arbor, MI 48105-1593.

Loss of Lampricides by Absorption on Bottom Sediments
By: V.K. Dawson, et al.
1986 In Canadian Journal of Fisheries Aquatic Science, Vol. 43, No. 8., pp. 1515-1520
Obtain from: Canadian Journal of Fisheries and Aquatic Sciences, Scientific Information and Publications Branch, 200 Kent St, Ottawa, Ont. K1A 0E6, CANADA.

Mammals of the South Bass Island Region
1985 GS-014 7 pp. $1.00
Obtain from: Ohio Sea Grant College Program—see address list.

Management of the Biological Resources of the Lake Ontario Basin
By: Douglas M. Carlson
1973 264 pp.
Obtain from: New York Sea Grant Institute—see address list.

Metabolism and Disposition of 1CDD in Rainbow Trout
By: James M. Kleeman, et al.
1986 11 pp. Free
Study shows that a steady dioxin contaminated diet would not in itself harm the growth of these trout.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Metals and Essential Elements in Herring Gulls from the Great Lakes, 1983
By: J. Struger
1987 In Journal of Great Lakes Research, Vol. 13, No. 1., pp. 43-55
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Mid-Atlantic Artificial Reef Conference—A Collection of Abstracts
See IB. Sportfishing.

Midwater Fish Attractors
See IB. Sportfishing.

Movements of Rainbow Steelhead Trout in Lake Ontario and a Hypothesis for the Influence of Spring Thermal Structure
See IB. Sportfishing.

1986 Strategic Plan for Fish, Wildlife and Native Plant Resources in Minnesota, The
20 pp.
Obtain from: Minnesota Department of Natural Resources, Box 25, DNR Bldg., 500 Lafayette Rd., St. Paul, MN.

Observations of "Hydra" from a Submersible at Two Deepwater Sites in Lake Superior
See IB. Sportfishing.

On Julian's Reef
See IB. Sportfishing.

On The Relationships between Natural and Harvest Mortalities of the Mallard
By: Yosef Cohen
1986 6 pp.
This study shows that the intensity of mallard harvest is sensitive to the strength of compensation between natural mortality and harvest mortality.
Obtain from: Minnesota Sea Grant Program—see address list.

Our Great Lakes Connection: A Curriculum Guide for Grades Kindergarten Through Eight
See IIA. Our Great Lakes Heritage.

Pacific Salmon in the Great Lakes—the History and Future
See IB. Sportfishing.

Pathology of Sea Lamprey Inflicted Wounds on Rainbow Trout
By: R. E. Kinnunen, et al.
1986
Obtain from: Great Lakes Fishery Commission, 1451 Green Rd., Ann Arbor, MI 48105.

Petersen-type Estimate of the Sea Lamprey Ammocoete Petromyzon Marinus Population in Fish Creek (New York State), A
By: B.G.H. Johnson, et al.
1986 Technical Report No. 5
Obtain from: The Sea Lamprey Control Centre, Sault Ste. Marie, Ont. P6A 1P0, CANADA.

Plants of the Illinois Dunesland
See IIIB. Wetlands.

Population Characteristics of Adult Pink Salmon in Two Minnesota Tributaries to Lake Superior
See IB. Sportfishing.

Prey Identification Relating to the Great Lakes Sea Grant Network Salmonid Diet Study
See IB. Sportfishing.

Proceedings of the 1986 Green Bay/Fox River Research Symposium, The
See IIIA. Great Lakes Urban and Natural Ecology

Rainbow Smelt Predation on Slimy Sculpin in Lake Ontario
By: Stephen B. Brandt, et al.
1986 In Journal of Great Lakes Research, Vol. 12., No.4, pp. 235-354
Obtain from: International Association of Great Lakes Research, University of Michigan, 2200 Bonisteel Blvd., Ann Arbor, MI 48109.

Regional Impacts of Fishery Allocation to Sport and Commercial Interests: A Case Study of Ohio's Portion of Lake Erie
See IB. Sportfishing.

Reproductive Success of Male Smallmouth Bass in Long Point Bay, Lake Erie
See IB. Sportfishing.

Results of the 1986 Spring Lake Trout Assessment in Management Units MI-2 and WI-2 of Lake Superior
By: Charles R. Bronte
1987 Assessment Report, 86-1 10 pp.
Obtain from: Red Cliff Band of Lake Superior Chippewas, Fisheries Department, PO Box 529, Bayfield, WI 54814.

Return of the Grayling
By: Frank W. Mainville
July-Aug, 1987 Michigan Natural Resources, Vol. 56, No. 4, pp. 4-9
Obtain from: Michigan Natural Resources, Department of Natural Resources, Box 30034, Lansing, MI 48909.

Role of Size Limits in Walleye Management, The
See IB. Sportfishing.

Salmonid Age at Maturity
By: D.J. Meesburg, editor
1986 118 pp. $12.00
Proceedings and papers of an international workshop held Sept. 25-28, 1984 in St. Andrews.
Obtain from: Canadian Government Publishing Centre, Ottawa, Ont. K1A OS9, CANADA.

Sanctuaries for Lake Trout in the Great Lakes
See IB. Sportfishing.

Seasonal Movements and Habitats of Brown Trout
See IB. Sportfishing.

Some Applications of Remotely Operated Vehicles in Fisheries Science
By: Richard E. Throne
1986 6 pp.
Explains how remotely operated vehicles (ROVs) can aid in fisheries studies.
Obtain from: Washington Sea Grant Program—see address list.

Status and Trend Highlights of Ohio's Lake Erie Fish and Fisheries (Data for 1977-1986)
By: Ohio Department of Natural Resources, Division of Wildlife
1987 25 pp.
Obtain from: Ohio Department of Natural Resources, Division of Wildlife, Lake Erie Fisheries Unit, PO Box 650, Sandusky, OH 44870.

Stock Structure of Rainbow Smelt in Western Lake Superior: Biochemical Genetics
See IB. Sportfishing.

Study of Michigan Caspian Tern and Double Crested Cormorant Colonies in Lakes Huron, Michigan, and Superior
See IIIA. Great Lakes Urban and Natural Ecology.

Suitability of Coal-waste Blocks in the Freshwater Environment Lake Ontario
See IB. Sportfishing.

Summary of Chemical Use to Manage Sea Lamprey Petromyzon Marinus Population in Canada and New York State, 1958-1984
By: J.G. Weise
1985 Technical Report No. 4. 84 pp.
Obtain from: The Sea Lamprey Control Centre, Sault Ste. Marie, Ont. P6A 1PO, CANADA.

Trout Biomass and Habitat Relationships in Southern Ontario Lakes
By: James N. Bowlby, et al.
1986 In American Fisheries Society Transactions, Vol. 115., No. 4. 2 pp.
Obtain from: American Fisheries Society, 5410 Grosvenor Lane, Suite 110, Bethesda, MD 20814.

User-resource Planning Framework for Offshore Recreational Artificial Reefs, A
By: William R. Gordon Jr., et al.
1986 27 pp.
This journal reprint shows past problems with artificial reef development and lays out a framework for planning future developments.
Obtain from: Texas Sea Grant Program—see address list.

Waterfowl Management and Harvesting
By: Joe Lagow
1970 Journal Reprint 5 pp.
Obtain from: Texas Sea Grant Program—see address list.

Wildlife Project: Making a Fresh Water Aquarium
By: Alvin C. Blake, et al.
1979 6 pp.
Obtain from: Southern Regional 4-H Wildlife Literature Committee for National 4-H.

Wisconsin Experimental Program for Satellite Image Mapping Using Thematic Mapper Data, The
By: Thomas M. Lillesand, et al.
1985 13 pp. To obtain companion map see "Map of Sturgeon Bay," IIIA- Maps
Illustrates the utility of satellite image mapping and introduces the layman to the general concept of the digital image and its flexibility for resource management purposes.
Obtain from: National Sea Grant Depository—see address list.

Yellow Perch in Lake Erie
See IB. Sportfishing.

IVA. Great Lakes Commerce

Agriculture and the Seaway: From Field to Foreign Market
By: Karen Plass, editor
1986 58 pp. $1.00
This describes and analyzes the decline in U.S. and Canadian grain exports related to the seaway system.
Obtain from: Minnesota Sea Grant Program—see address list.

Cargo Carriers of the Great Lakes
By: Jacques LesStrang
1985 $9.50
Obtain from: Harbor House Publishing Co., 221 Water St., Boyne City, MI 49712.

Cargo Preference and Export Competitiveness in the Port of Duluth: A Survey of the Issues
By: Scott M. Hanson, et al.
1987 RR-26 27 pp.
This paper considers the complex issues underlying the Federal policy of cargo preference and its effect on the Port of Duluth.
Obtain from: Minnesota Sea Grant Program—see address list.

Coastlines
See IA. Boating.

Directions of Change, The
By: Seaway Review Magazine
Oct.-Dec., 1986 In Seaway Review, Vol. 15, No. 4, pp. 9, 11, 68, 96, 102-105
Shipping executives' views of the Great Lakes/St. Lawrence Seaway transportation system.
Obtain from: Harbor House Publishers, 221 Water St., Boyne City, MI 49712.

Domestic Waterborne Trade of the United States—1984
By: U.S. Department of Transportation
1986 136 pp.
Obtain from: Maritime Administration, Office of Domestic Shipping, 400 7th St., SW., Washington, DC 20590.

Duluth, Taconite Harbor, Silver Bay and Two Harbors, Minnesota; and Ashland and Superior Wisconsin
By: U.S. Army Corps of Engineers
1987 Port Series No. 49 62 pp. $6.50
Includes 2 photomaps.
Obtain from: Water Resources Support Center, Port Series, Reports Casey Bldg., Fort Belvoir, VA 22060-5586.

Excursion, Cruise and Passenger Ferry Service on the Great Lakes and St. Lawrence River
By: Great Lakes Commission
1987 $4.50
Explains both the historical and current passenger services available in the Great Lakes system.
Obtain from: Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Future of the Great Lakes - St. Lawrence Seaway System, The
By: D.A. Leitch
1986 Occasional Paper No. 21 77 pp. $10.00
Obtain from: University of Manitoba Transport Institute, Winnipeg, Manitoba R3T 2N2, CANADA.

Government Policies and Great Lakes Shipping: Perspectives on U.S. and Canadian Agricultural and Maritime Policies
1988 42 pp. $2.00
Sea Grant conference proceedings; contains several criticisms toward the existing government policies on Great Lakes.
Obtain from: Minnesota Sea Grant Program—see address list.

Governor's Conference On Lake Michigan—Illinois' Great Lake: Protecting and Developing a Valuable Natural Resource
See IIA. Our Great Lakes Heritage.

Grain Transportation on the Great Lakes—St. Lawrence Seaway
By: Stanley R. Thompson, et al.
1982 MICHU-SG-82-501 55 pp.
Obtain from: Michigan Sea Grant College Program—see address list.

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Great Lakes Facts Brochures
See IIA. Our Great Lakes Heritage.

Great Lakes Navigation Season
By: Elwyn E. Wilson
1986 7 pp.
Obtain from: National Oceanic Data Center, NOAA, Washington, DC 20235.

Great Lakes Reporter, The
See IIA. Our Great Lakes Heritage.

Great Lakes Shipping: The Story of the Lakes' Vessel Industry
1987 Free

A beginner's book about the Great Lakes fleet. Describes methods for loading and unloading, the types of products shipped, and life on the lakes.
Obtain from: Lake Carrier's Association, 915 Rockefeller Building, Cleveland, OH 44113-1306.

Great Lakes St. Lawrence System, The
By: Jacques LesStrang
1985 $6.00

Obtain from: Harbor House Publishing Co., 221 Water St., Boyne City, MI 49712.

Great Lakes Transportation in the Eighties
By: Ronald L. Heilmann, et al.
1986 100 pp. $8.00

Examines the Great Lakes shipping industry in the context of recent economic changes in the region and how these changes have affected the flow of the major commodities shipped on the lakes.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

How Do People Use Lighthouses and Navigational Charts? A Marine Education Infusion Unit
See IA. Boating.

Impact of Winter Navigation on Cross-Channel Transit of the Great Lakes—St. Lawrence Seaway System, The
By: L. S. Reynolds, et al.
1983 20 pp.

Obtain from: New York Sea Grant Institute—see address list.

Indiana Portside
By: The Indiana Port Commission
Bimonthly 6 pp.

This newsletter contains current information on the three Indiana ports and the Indiana Port Commission.
Obtain from: Indiana Port Commission, 143 W. Market St., #204, Indianapolis, IN 46204; 1-800-233-PORT or 1-800-232-PORT.

Is Great Lakes Shipping an Underutilized Economic Resource?
By: Eugene F. Dice
1983 MICHU-SG-83-500 33 pp.

Obtain from: Michigan Sea Grant College Program—see address list.

Know Your Ships
By: Thomas Manse
1986 120 pp.

About vessels passing through the U.S. and Canadian Soo Locks.
Obtain from: Marine Publishing Co. Inc., PO Box 68, Sault Ste. Marie, MI 49783.

Lake Boats '87
By: John O. Greenwood, et al.
1987 140 pp. $5.50

This lists all U.S. and Canadian lakes/seaway vessels including size, features, and ownership.
Obtain from: Freshwater Press, Inc., 1701 E. 12th St., Suite 3 K-W., Cleveland, OH 44114-3201.

Lake Effect: Impact of the Great Lakes on the Region's Economy, The
By: The Center for the Great Lakes
1984 24 pp. $6.00 ($5.00 each for orders of 10 or more)

Documents the value of the Great Lakes to the region's economy and presents recommendations to the region's leader in at least five major areas.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave., #1408 Chicago, IL 60611, Attn: Publications; (312)645-0901.

Lakers, The
See IIA. Our Great Lakes Heritage.

Listing of Vessels Passing Through the U.S. and Canadian Locks (Locks at Sault Ste. Marie)
By: Thomas Manse
1987 120 pp. $5.95

Obtain from: Marine Publishing Co., PO Box 68, Sault Ste. Marie, MI 49783.

Marine Careers: Professional, Technical, Scientific
Publications E-1336, E-1357, E-1355 $0.30 each

Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

Moving Government Goods on the Great Lakes—What an Increase Would Mean in Dollars and Jobs for the Region
By: The Center for the Great Lakes
1986 83 pp. $10.00 ($8 for orders of 10 or more)

A study of U.S. government cargo movements through the Great Lakes/St. Lawrence Seaway system and of the economic benefits of securing a larger share.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave., #1408, Chicago, IL 60611, Attn: Publications; (312)645-0901.

Newspaper clippings from the 5-county area of the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

Ohio's Lake Erie ports and Ohio River terminals, 1986-1987
By: Ohio Department of Transportation
1986 100 pp.
Obtain from: Ohio Department of Transportation, Division of Water Transportation, 25 Front St., Columbus, OH 43215.

Our Great Lakes Connection: A Curriculum Guide for Grades Kindergarten Through Eight
See IIA. Our Great Lakes Heritage.

Port of Chicago, Illinois, The
By: U.S. Army Corps of Engineers
1985 Port Series No. 46 125 pp. $8.50
Includes 4 photomaps.
Obtain from: Water Resources Support Center, Port Series Reports, Casey Bldg., Fort Belvoir, VA 22060-5586.

Preliminary Analysis of Season Extension and the Duluth- Superior Economy, A
By: C. Ford Runge, et al.
1986 37 pp.
Obtain from: Minnesota Sea Grant Program—see address list.

St. Lawrence Seaway Authority, Annual Report 1986-1987
By: St. Lawrence Seaway Authority
1987 14 pp. English and French versions available
Obtain from: St. Lawrence Seaway Authority, 360 Albert St., Ottawa, Ontario K1R 7X7, CANADA.

St. Lawrence Seaway Traffic Report for the 1986 Navigation Season, The
By: St. Lawrence Seaway Development Corporation
1987 87 pp.
Includes historical tables.
Obtain from: St. Lawrence Seaway Development Corp., PO Box 44090, Washington, DC 20026-4090, or St. Lawrence Seaway Authority, 360 Albert St., Ottawa, Ontario K1R 7X7, CANADA.

Sault Ste. Marie Canal: A Chapter in the History of Great Lakes Transportation, The
See IIA. Our Great Lakes Heritage.

Seaway in the Year 2000: Conference Highlights, Duluth, Minnesota, June 10-12, 1985, The
By: Howard Bell, editor
1985 54 pp. $1.00
This discusses the financial, construction, commodity, and policy issues which confront the seaway's future.
Obtain from: Minnesota Sea Grant Program—see address list.

Seaway Review
By: Jacques Les Strang
Quarterly $5.00
The international transportation business magazine of the Great Lakes/St. Lawrence Seaway region.
Obtain from: Harbor House Publishing, 221 Water St., Boyne City, MI 49712.

Seiche, The
See IA. Boating.

Shipping on the Great Lakes
By: K.N. Schlarb, et al.
EP-013 Teacher guide/student workbook
10 pp. each $3.00
Illustrates cost and energy efficiency of cargo transport methods.
Obtain from: Ohio Sea Grant College Program—see address list.

Shipping: The World Connection
By: R.W. Fortner, et al.
1987 EP-020 Teacher guide (16 pp.) and student workbook (16 pp.) $3.00
Shows how locks work to move vessels through the Great Lakes.
Obtain from: Ohio Sea Grant College Program—see address list.

Social Consequences of Maritime Technological Change
By: Alastair Couper
1985 17 pp. $3.00
Obtain from: Washington Sea Grant Program—see address list.

Tribute to the Great Lakes, A
See IIIA. Great Lakes Urban and Natural Ecology.

21st Century: The Great Lakes/Seaway System, The
By: Karen Plass and Nancy Berini, editors
1988 30 pp. $2.00
Obtain from: Minnesota Sea Grant Program—see address list.

Upwellings
See IA. Boating.

Water Commerce of Indiana: A Profile of the State's Three Ports, The
By: Seaway Review Staff
1987 13 pp.
Obtain from: Harbor House Publishing Company, 221 Water St., Boyne City, MI 49712.

Water and the Michigan Economy: Estimating the Economic Value of Michigan's Fresh Water
By: L. W. Libby, et al.
1985 Report G. 1024-05 126 pp. $10.00
Obtain from: Institute of Water Research, Michigan State University, 334 Natural Resources Bldg., East Lansing, MI 48824.

IVB. The Economic Importance of Canals

Comprehensive Development and Management Plan for the Illinois and Michigan Canal: Phase One
By: Harland Bartholomew, et al.
1972
Obtain from: Illinois Department of Transportation, 310 S. Michigan, Room 606, Chicago, IL 60604.

Erie Water West: A History of the Erie Canal 1792-1854
See IIB. The History of Canals in the Midwest.

History of the Illinois-Michigan Canal
By: La Salle County Conservation Association
1962
Obtain from: LaSalle County Conservation Association or government documents library.

Indiana's Canal Heritage
See IIB. The History of Canals in the Midwest.

Interim Report on Comprehensive Development Planning for Illinois and Michigan Canal
By: Illinois and Michigan Canal Task Force
1973
Obtain from: Illinois and Michigan Canal Task Force, Illinois Department of Transportation, 310 S. Michigan, Chicago, IL 60604.

Ohio Canal Era
See IIB. The History of Canals in the Midwest.

Reconnaissance Survey: Illinois and Michigan Canal
By: US Department of Interior, National Park Service
Obtain from: National Park Service, Interior Building, C Street, NW, Washington, DC 20240, or government documents library.

IVC. Commercial Fishing

Action for the Eighties ... and Beyond -Vol. 1, A Strategic Plan for Illinois Fisheries Resources, FY87-FY91
See IB. Sportfishing.

Alewife, Rainbow Smelt and Native Fishes in Lake Michigan: Competition or Predation?
By: Larry B. Crowder
1980 Journal Reprint 9 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Antitrust Laws and Integration in the Seafood Industry
By: Kevin Davis
1981 In Integration: Promises and Problems in the Northwest Seafood Industry, by Rodner Winget, pp. 133-139.
Obtain from: Oregon Sea Grant College Program—see address list.

Beautiful Ship: A Story of the Great Lakes, The
By: John B. Prescott
1952
Story of a fisherman's family during the sea lamprey invasion.
Obtain from: Local library.

Biological and Commercial Catch Statistics from the Intertribal Fishery in Michigan Waters of Lake Superior
By: M.P. Ebener, et al.
1986 Administrative Report 87-4 17 pp.
Obtain from: Great Lakes Indiana Fish and Wildlife Commission, Biological Services Division, PO Box 9, Odanah, WI 54861.

Bisulfite Suppression of Fish Aromas
By: David B. Josephson, et al.
1983 Journal Reprint 4 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Catalog of Marine Fisheries Legislation in New York State, A
By: Jay Ginter
1974 83 pp.
Obtain from: New York Sea Grant Institute—see address list.

Character Displacement and Habitat Shift in a Native Cisco in Southeastern Lake Michigan: Evidence for Competition?
By: Larry B. Crowder
1984 Journal Reprint 6 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Chemical Basis of Fresh Fish Aroma Deterioration During Refrigerated Storage
By: Gudrun Olafsdottir
1985 2 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Commercial Fisheries Newsline
By: Ronald Kinnunen, editor
Quarterly 8 pp.
Provides information on relevant regulations, events, opportunities and workshops for Great Lakes commercial fishing and aquaculture industries.
Obtain from: District Sea Grant Agent, Michigan State University, Upper Peninsula, Extension Center, 1030 Wright St, Marquette, MI 49855.

Commercial Fisherman's Guide to Marine Insurance and Law, A
By: Dennis W. Nixon
1984 40 pp.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Commercial Freezing of Freshwater Fish
By: A. Estes Reynolds, et al.
1980 4 pp. $0.40
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

Comparative Sensory Analysis of Aquacultured and Wild Yellow Perch Fillets
By: Robert Clarence Lindsay
1980 Journal Reprint 7 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Competition for Open-Access Resources: A Class Exercise that Demonstrates the Tragedy of the Commons
By: B.C. Johnson, et al.
1986 Journal Reprint 5 pp. Free
Contains a computer exercise that shows students how the commercial fishing industry tends to overfish the resources unless it is cooperatively managed.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Delayed Mortality Following Transport of Lake Erie Freshwater Drum Captured in Shore Seines
By: Michael Thomas Metcalf
1984 TB-001 59 pp. $7.00
Obtain from: Ohio Sea Grant College Program—see address list.

Development of Products From Underutilized Species—Battered and Breaded Smelt
By: Robert Carl Baker, et al.
1979 15 pp.
Obtain from: New York Sea Grant Institute—see address list.

Discoloration Problems in Mechanically Deboned Fish
By: Carlos A. Jauregui, et al.
1980 Journal Reprint 2 pp.
Obtain from: New York Sea Grant Institute—see address list.

Discrimination of Fish and Seafood Quality by Consumer Populations
By: J. B. Weason, et al.
1979 Journal Reprint 5 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Distribution and Abundance of Rainbow Smelt in Western Lake Superior as Determined from Acoustic Sampling
By: B. G. Heist, et al.
1984 Journal Reprint 11 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Distribution and Elimination of a Polychlorinated Biphenyl after Acute Dietary Exposure in Yellow Perch and Rainbow Trout
By: Patrick D. Guiney, et al.
1980 Journal Reprint 8 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Educational Needs of the US Commercial Fishing Industry—A Report to the United States Senate by the National Sea Grant Program NOAA
By: Warren E. Yasso
1980 75 pp.
Obtain from: NOAA, National Sea Grant College Program—see address list.

Effects of Food Abundance on Larval Lake Whitefish
See IIIC. Wildlife and Waterfowl.

Efficacy of Potassium Sorbate and Other Preservatives in Preventing Toxigenesis in Modified Atmosphere Packaged Fresh Fish
By: Robert A. Seward
1982 3 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Environmental Regulatory Programs Affecting the Seafood Processing Industry in the 1980's
By: Jack L. Cooper
1980 FLSGP-W-80-001 338-352 pp.
Obtain from: Florida Sea Grant College Program—see address list.

Enzymic Generation of Volatile Aroma Compounds from Fresh Fish
By: David B. Josephson, et al.
1986 19 pp. Free
Explains what causes fish to smell spoiled.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

EPA's Regulatory Activities Affecting the Seafood Processing Industry
By: William H. Cloward
1980 FLSGP-W-80-001 pp. 301-302
Obtain from: Florida Sea Grant College Program—see address list.

Ethanol Accumulations in Muscle Tissue as a Chemical Indicator of Fish Spoilage
By: Stephen D. Kelleher, et al.
1983 Journal Reprint 6 pp.
Obtain from: New York Sea Grant Institute—see address list.

Evidence of Natural Reproduction by Stocked Lake Trout in Lake Ontario
See IB. Sportfishing.

Extending Shelf-Life of Fresh Wet Red Hake and Salmon Using CO2- O2 Modified Atmosphere Potassium Sorbate Ice at 1 degree C.
By: M. S. Fey, et al.
1982 Journal Reprint 7 pp.
Obtain from: New York Sea Grant Institute—see address list.

Fecundity of Hatchery and Wild Lake Trout in Lake Superior
See IB. Sportfishing.

Feeding Ecology and Vertical Migration of Adult Alewives in Lake Michigan
See IB. Sportfishing.

Final Report — NOAA 2-35364 Application of Computer Technology and Advanced Physical Distribution Techniques to Seafood Marketing
By: Donald Mulvihill
1974
Obtain from: National Sea Grant Depository—see address list.

Fish Spawning Grounds in Wisconsin Waters of the Great Lakes
By: Catherine Coberly, et al.
1982 43 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fish in Lake Michigan: Distribution of Selected Species
See IB. Sportfishing.

Fish of Lake Michigan
See IB. Sportfishing.

Fish: Low in Calories, High in Nutrition
See IB. Sportfishing.

Fisheries Education: From the Great Lakes to the Sea
See IB. Sportfishing.

Fisheries Law Enforcement: Programs, Problems, and Evaluation.
By: Jon G. Sutinen, et al.
1985 237 pp. $5.00
Proceedings of a workshop on fisheries law enforcement.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Fisherman - The News Journal of the Freshwater Fisheries, The
By: The Marine Publishing Co.
Monthly 20 pp. $10.00 (12 issues)
This journal covers the production, distribution, and sales of products from the Great Lakes including stories on local issues facing commercial fisherman.
Obtain from: The Marine Publishing Co., 623 Washington St., PO Box 658, Grand Haven, MI 49417.

Fishery Waste Management in the Great Lakes
By: David A. Stuiber
1980 FLSGP-W-80-001 96-101 pp.
Obtain from: Florida Sea Grant College Program—see address list.

Fishes of Ohio
See IB. Sportfishing.

Fishes of Wisconsin
See IB. Sportfishing.

Fishing Vessel Safety
By: Tad Kowalski
$4.00
This report covers safety topics of interest to commercial fishermen such as safe gear handling and liability issues.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Food Resources as Viewed by Commercial Fish Processing
By: Lowell A. Wakefield
1970 ORESU-W-70-001 40-41 pp.
Obtain from: Oregon Sea Grant College Program—see address list.

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Great Lakes Fishes—4-H Fact Sheets
See IB. Sportfishing.

Green Bay's Yellow Perch Fishery
By: Clifford Kraft
1982 10 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

How to Hang a Gill Net
By: Jim Bahen, et al.
1980 11 pp.
Obtain from: North Carolina Sea Grant College Program—see address list.

Impacts of Socioeconomic and Demographic Factors on Household Expenditure for Disaggregate Fish and Shellfish in the US
By: Hsiang-tai Cheng
1985 3 pp.
Obtain from: Virginia Sea Grant College Program—see address list.

Implementing Multiobjective Management of Commercial Fisheries: A Strategy For Policy-Relevant Research
By: Richard C. Bishop, et al.
1981 In Economic Analysis for Fisheries Management Plan 22 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Indiana Fish and Wildlife Regulations
See IB. Sportfishing.

Indiana Fish and Wildlife Code Book
See IB. Sportfishing.

Industry's Role at the Interface of Regulatory Promulgation and Action
By: Roy E. Martin
1980 FLSGP-W-80-001, pp. 338-352
Obtain from: Florida Sea Grant College Program—see address list.

International Convention on Great Lakes Fisheries
See IB. Sportfishing.

International Conference on Design, Construction, and Operation of Commercial Fishing Vessels
By: John C. Sainsbury, et al.
1985 Conference proceedings reprint. See entries FLSGP-Z-85-006-045 for individual papers, 497 pp.
Obtain from: Florida Sea Grant College Program—see address list.

Life History, Abundance, and Potential Harvest of Carp from Michigan Waters of the Great Lakes
See IB. Sportfishing.

Marketing the Fish You Catch
By: Jon M. Conrad
1982 6 pp.
Obtain from: New York Sea Grant Institute—see address list.

National Pesticide Monitoring Program: Organochlorine Residues in Freshwater Fish, 1976-79
By: Christopher J. Schmitt, et al.
1983 62 pp.
Obtain from: U.S. Fish and Wildlife Service, Office of Biological Services, 18th and C Streets, NW, Washington, DC 20240.

New York Commercial Fisheries Update
Monthly Newsletter
Obtain from: New York Sea Grant Institute—see address list.

Newspaper clippings from 5-county area of the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

On Julian's Reef
See IB. Sportfishing.

Optimal Fishery Management in the Presence of Illegal Activity
By: Scott R. Milliman
1986 19 pp. Free
Explores the impact of illegal fishery activity and enforcement costs on optimal resource utilization.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Our Changing Fish Species History
See IIIC. Wildlife and Waterfowl.

Overfishing or Pollution? Case History of a Controversy on the Great Lakes
By: Frank N. Egerton
1985 28 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Physical Design of Fish Processing Ovens
By: Min-nan Huange
1981 AKU-W-81-0027 22 pp.
Obtain from: Alaska Sea Grant College Program—see address list.

Population or Stock Structure of Lake Whitefish, in Northern Lake Michigan
By: Mark Imhof, et al.
1980 Journal Reprint 11 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Population Statistics, Yield Estimates, and Management Considerations for Two Lake Whitefish Stocks - Lake Michigan
By: Mark P. Ebener, et al
1985 Journal Reprint 14 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Potential for Minced Fish, The
By: J. Regenstein
1986 6 pp.
Obtain from: New York Sea Grant Institute—see address list.

Principles and Innovations in Commercial Fishing Gear
By: Jerry E. Jurkovich
1981 ORESU-W-81-001 pp. 23-32
Obtain from: Oregon Sea Grant College Program—see address list.

Profile of the Michigan Commercial Fisherman, A
By: Craig K. Harris
1982 MICHU-SG-82-205 73 pp. $2.00
Obtain from: Michigan Sea Grant College Program—see address list.

Quality Control in the Food Industry
By: J. David Baldock
1977 VPI-H-77-002, pp. I-11-14
Obtain from: Virginia Sea Grant College Program—see address list.

Red Cliff Commercial Fishery Statistics for the Wisconsin Waters of Lake Superior, Fishing 1986
By: Red Cliff Band of Lake Superior Chippewas
1986 34 pp.
Obtain from: Fisheries Department, PO Box 529, Bayfield, WI 54814.

Regional Impacts of Fishery Allocation to Sport and Commercial Interests: A Case Study of Ohio's Portion of Lake Erie
See IB. Sportfishing.

Relative Cancer Risks of Chemical Contaminants in the Great Lakes
See IB. Sportfishing.

Review of Effects of Carbon Dioxide on Microbial Growth and Food Quality, A
By: James A. Daniels, et al.
1985 Journal Reprint 6 pp.
Explains how carbon dioxide can be used in seafood packaging to retard spoilage, which is one of the big problems in the seafood industry.
Obtain from: New York Sea Grant Institute—see address list.

Safety At Sea—A Guide for Fishing Vessel Owners and Operators
By: DeWayne Hollin
1982 38 pp.
Obtain from: Texas Sea Grant College Program—see address list.

Sanitary Standards under the Department of Commerce Voluntary Seafood Inspection Program
By: Charles Neal
1978 VPI-0-78-001, pp. IV-12-19
Obtain from: New York Sea Grant Institute—see address list.

Sea Grant Publications for the Fishing Industry
1984 106 pp.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Seafood Retailing Manual
By: Robert J. Price
1985 81 pp. $4.00
Obtain from: California Sea Grant College Program—see address list.

Shelf-life Extension of Fresh Fish, The
By: Joe M. Regenstein, et al.
1981 Conference Report Reprint 8 pp.
Obtain from: New York Sea Grant Institute—see address list.

Simple Method for Evaluating Textural Changes of Frozen Fish Minces, A
By: Dietrich Knorr, et al.
1983 Journal Reprint 2 pp.
Obtain from: New York Sea Grant Institute—see address list.

Some Applications of ROVs in Fisheries Science
See IIIC. Wildlife and Waterfowl.

Special Fishery Management Issue of the Wisconsin Natural Resources Magazine
By: J. Wolfred Taylor
1983 55 pp.
Obtain from: Wisconsin Department of Natural Resources, 101 S. Webster, Madison, WI 53703.

Species Interactions and Community Structure of Fishes in Lake Michigan
By: Larry B. Crowder
1981 7 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Spell of the White Sturgeon, The
See IIA. Our Great Lakes Heritage.

Sport and Commercial Fishing Conflicts: A Theoretical Analysis
By: Richard C. Bishop, et al.
1980 14 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Stock Structure of Rainbow Smelt in Western Lake Superior: Biochemical Genetics
See IB. Sportfishing.

Survival from Sea Lamprey Predation by Two Strains of Lake Trout
See IB. Sportfishing.

Synthesis of Knowns, Unknowns, and Policy Recommendations from the Sea Lamprey International Symposium
By: Carl J. Walters, et al.
1980 Journal Reprint 7 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Tax Management for Commercial Fishermen
By: Norman K. Bender
1981 22 pp.
Obtain from: Connecticut Sea Grant Program—see address list.

Thermal Habitat Partitioning by Fishes in Lake Michigan
By: Stephen B. Brandt, et al.
1980 Journal Reprint 8 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Today's Trash Fish — Tomorrow's Best Sellers?
By: Robert C. Baker, et al.
1982 Journal Reprint 5 pp.
Obtain from: New York Sea Grant Institute—see address list.

Toxic Materials and their Effects on Marine Resources—Abstracts of Papers
1979 28 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Upwellings
See IA. Boating.

Using New Measures to Define Shelf Life of Fresh Whitefish
By: W. F. Sharp Jr., et al.
1986 5 pp. Free
Describes various ways to extend the shelf life of packaged whitefish and the effect that each method has on taste.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Waste Water Treatment in Commercial Fish Processing: Reducing Stick Water Loadings
By: David A. Stuiber et al.
1972 18 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

What is Fish Quality?
By: Joe M. Regenstein
1983 Journal Reprint 3 pp.
Obtain from: New York Sea Grant Institute—see address list.

Yellow Perch in Lake Erie
By: Charles E. Herdendorf, et al.
1980 TS-001 7 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

IVD. Marine Industry

Access to Waters and Underwater Lands for Aquaculture in New York
By: Milton Kaplan
1984 173 pp.
Obtain from: New York Sea Grant Institute—see address list.

Aquaculture: A New Industry for Illinois and Indiana
By: Stephen W. Waite, et al.
1984 10 pp. Free
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Aquaculture Development in New York State—Final Report
1985 93 pp.
Obtain from: New York Sea Grant Institute—see address list.

Aquaculture 1980—A Digest of Research in the Sea Grant Program
By: Cuyvers, et al.
Obtain from: University of Delaware Sea Grant College Program—see address list.

Aquaculture Organizations, Publications and Resources
By: M.L. Gross, et al.
1987 2 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Assessment of the Competitive Position of Great Lakes Ports in the International Steam Coal Market
By: David Senf, et al.
1986 77 pp.
Obtain from: Minnesota Sea Grant Program—see address list.

Boat and Motor Dealer
Monthly Magazine.
Obtain from: Van Zevern, Inc., 3949 Oakton St., Skokie, IL 60076; (312)982-1810.

Boat Shows in Annapolis, Gauging the Economic Impacts
By: Anthony J. Fedler, et al.
1987 7 pp.
Studies the economic value of boat shows with focus on the attendance, and spending patterns of show patrons and exhibitors.
Obtain from: Maryland Sea Grant Program—see address list.

Boating Facilities Planner
Quarterly
Obtain from: National Marine Manufacturers Association, 401 N. Michigan Ave., Chicago, IL 60611; (312)836-4747.

Cargo Preference and Export Competitiveness in the Port of Duluth: A Survey of the Issues
See IVA. Great Lakes Commerce.

Case Study 1—Industrial Shoreline Development—Fossil Fuel Power Plant
1975 NYSGI-W-75-001, pp. 277-283
Obtain from: New York Sea Grant Institute—see address list.

Charter Industry Trade News
Bimonthly magazine 60 pp.
Obtain from: Charter Industry Services, PO Box 95539, Hoffman Estates, IL 60195-0539; (312)310-6750.

Coastlines
See IIA. Our Great Lakes Heritage.

Corps of Engineers Regulatory Program, The
By: James E. Caruth
1981 AKU-W-81-001, pp. 209-213
Obtain from: Alaska Sea Grant College Program—see address list.

Culture of Nonsalmonid Freshwater Fishes: Yellow Perch
By: Roy C. Heidinger, et al.
1986 11 pp. Free
This reviews the biological characteristics relevant to the culture of perch including spawning, larval development, feeding and growth.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Curriculum in Marine Science—Electronic Technology
By: Ted Boaz, et al.
1971 82 pp.
Obtain from: Del Mar College, Baldwin & Ayers, Corpus Christi, TX 78404.

Coastal Zone Management Information Exchange
See IIA. Our Great Lakes Heritage.

Directions of Change, The
See IVA. Great Lakes Commerce.

DNR, ORAP and Future Funding Arrangements Needed to Promote Marine Development, The
By: Donald Beghin
1971 WISCU-WA-71-002 9-10 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Duluth, Taconite Harbor, Silver Bay and Two Harbors, Minnesota; and Ashland and Superior, Wisconsin.
See IVA. Great Lakes Commerce.

Economic Analysis of Commercial Hatchery Production of Sturgeon
By: Katherine J. Shigekawa, et al.
1985 14 pp.
This addresses the economic factors associated with commercial production of the white sturgeon.
Obtain from: National Sea Grant Depository—see address list.

Environmental Impacts of Marinas and Their Boats
By: Neil W. Ross
1985 7 pp.
Conference proceedings session.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Excursion, Cruise and Passenger Ferry Service on the Great Lakes and St. Lawrence River.
See IVA. Great Lakes Commerce.

Exploration and Assessment of Offshore Sand and Gravel, Western Lake Michigan
By: Carol J. Welkie, et al.
1982 Journal Reprint 63 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Financing for Aquaculture in Minnesota
By: M.L. Gross, et al.
1987 Fact sheet
Obtain from: Minnesota Sea Grant Program—see address list.

Fish Farming in Wisconsin
By: Peyton Smith
1983 TS-039 Journal Reprint 4 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Fish Farming—Is it for You?
By: Frank R. Lichtkoppler
1986 FS-039 2 pp. Free
Contains a checklist for those contemplating the business of fish farming. Questions cover economic, physical, and production factors, and risks.
Obtain from: Ohio Sea Grant College Program—see address list.

Government Policies and Great Lakes Shipping: Perspectives on U.S. and Canadian Agricultural and Maritime Policies
See IVA. Great Lakes Commerce.

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Great Lakes Charterboat Fishing Industry, The
By: Great Lake Sea Grant Network
1985 91 pp.
These selected papers from the Great Lakes Sea Grant Network Charterboat Fishing Workshop, 1985 focus on the importance of the economic impacts, marketing, and management.
Obtain from: New York Sea Grant Institute—see address list.

Great Lakes Facts Brochures
See IIIA. Great Lakes Urban and Natural Ecology.

Great Lakes—Overseas General Cargo Traffic and Port Hinterlands
1976 WISCU-B-76-00, pp. 135-176
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Growth Responses of Crop Plants to Fish Soluble Nutrients Fertilization
By: L. H. Aung, et al.
1984 80 pp.
Relates to using fish processing wastes as fertilizer.
Obtain from: Virginia Sea Grant College Program—see address list.

Guide to Backyard Aquaculture in Florida
By: Donald W. Pybas, et al.
1987 49 pp. $ 2.00
This describes water quality concerns, design and construction of small scale systems, appropriate species, regulations and others aspects of backyard fish culture.
Obtain from: Florida Sea Grant College Program—see address list.

Handbook for Waterborne Transportation of Hazardous Materials and Waste
By: Cornelia Ann Burr, et al.
1985 53 pp.
Obtain from: Mississippi-Alabama Sea Grant Consortium—see address list.

Handling Fishery Wastes and By-products. Fish Liquefaction: An Alternative to the Present Waste Handling Practices
By: David Stuiber, et al.
1986 42 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Hazards of Tank Ships and Barges Transporting Petroleum Products on the Great Lakes, The
By: J. Philip Keillor
1980 Journal Reprint 18 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

HELM: Happenings and Educational Activities Around Lake Michigan, The
See IA. Boating.

Hybrid Striped Bass Culture: Status and Perspective
By: R. Hodson, et al.
1987 105 pp. Free
The ten papers in this publication cover every aspect of hybrid culture from the hatchery stage to processing and marketing.
Obtain from: University of North Carolina Sea Grant College Program—see address list.

Ice Strengthening of Great Lakes Bulk Carriers
By: Movses J. Kaldjian, et al.
1982 MICHU-SG-82-200 23 pp. $2.00
Obtain from: Michigan Sea Grant College Program—see address list.

Illinois Aquaculture Industry: Its Status and Potential
1986 150 pp.
Obtain from: Division of Marketing, Illinois Department of Agriculture, State Fairgrounds, PO Box 4906, Springfield, IL 62708; (217)782-4583.

Impact of State and Local Taxation on Industrial Location: A New Measure for the Great Lakes Region, The
By: W. Douglas Morgan, et al.
1974 Journal Reprint 11 pp.
Obtain from: California Sea Grant College Program—see address list.

Indiana Portside
See IVA. Great Lakes Commerce.

Institutional Trade, The
By: Marvin Spira
1975 WISCU-W-75-001 3-5 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Introduction to Aquaculture in Minnesota
By: Mark Gross, Anne Kapuscinski, and David Landkamer
1987 2 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Literature Review of the Environmental Impacts of Marinas and their Boats
By: Gail L. Chimura, et al.
1978 39 pp.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Littoral Drift
See IA. Boating.

Making it Easier to Land a Waterfront Job
1975 ORESU-Q-75-0001 66-67 pp.
Obtain from: Oregon Sea Grant College Program—see address list.

Managing to Catch People, An Educator's Guide for Helping Charter Enterprises
By: Bruce DeYoung
1986 150 pp.
Obtain from: New York Sea Grant Institute—see address list.

Marina Operators Input into Marine Technical Training
By: Larry Booth
1979 FLSGP-W-79-001 38-39 pp.
Obtain from: Florida Sea Grant College Program—see address list.

Marina Rate Structure Survey
By: Robert D. Espeseth
1979 23 pp.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Marine Insurance Guide: A Checklist of Insurable Hazards Common to Boat Owners, Dealers, Marinas...
By: Samuel Snow, et al.
1971 11 pp.
Geared towards boat builders, boat service agencies, dry dock and boat repair, and marine service stations.
Obtain from: National Sea Grant Depository—see address list.

Marine Mechanics Career Training at Clover Park Educational Center
By: G. James Capelli
1977 WASHU-P-77-001, pp. 81-82, WASHU P-77-002
Obtain from: Washington Sea Grant Program—see address list.

Marine Related Careers
By: Frank Lichtroppler
1988 FS-012 2 pp.
Obtain from: Ohio Sea Grant College Program—see address list.

Marine Technician Training
By: Leonard Mitchell, et al.
1974 DELU-Q-74-001, pp. 14
Obtain from: Delaware Sea Grant College Program—see address list.

Marine Technician Training Program
By: Ken K. Kamimura
1974 HAWAU-P-74-001, pp. 104-105 pp, HAWAU-P- 74-002, pp. E32-E36
Obtain from: University of Hawaii Sea Grant College Program—see address list.

Marine-Related Occupations: A Primer for High School Students
By: Prentice K. Stout, et al.
1977 15 pp.
Obtain from: New York Sea Grant Institute—see address list.

MIT Sea Grant Marine Industry Collegium—A Technology Transfer Partnership of Industry, Academia and Government, The
By: Dean A. Horn
1983 4 pp.
Obtain from: Massachusetts Institute of Technology Sea Grant—see address list.

Moving Government Goods on the Great Lakes - What an Increase Would Mean in Dollars and Jobs for the Region
See IVA. Great Lakes Commerce.

National Sea Grants on Marinas and Recreational Boating Topics
By: Neil W. Ross, et al.
1985 54 pp.
Obtain from: Rhode Island Sea Grant College Program—see address list.

Newspaper clippings from 5-county area of the Illinois-Indiana Lake Michigan region—1986 to present
See IA. Boating.

Ocean Engineering—Marine Transportation (Education and Training)
By: John W. Devanney, III
1972 MIT-Q-72-001, pp. 17-18
Obtain from: Massachusetts Institute of Technology Sea Grant Program—see address list.

Ohio's Lake Erie ports and Ohio River terminals, 1986-1987
See IVA. Great Lakes Commerce.

Penaid Shrimp Culture in the United States: A Brief Overview Stressing Species, Seed Production and Grow Out
By: Addison L. Lawrence, et al.
1987 11 pp.
Outlines methodologies involved in shrimp mariculture in the U.S. thru late 1983.
Obtain from: National Sea Grant Depository—see address list.

Petroleum Transport on the Great Lakes
By: Robert M. Scher
1979 79 pp.
Obtain from: Michigan Sea Grant College Program—see address list

Port of Chicago, Illinois, The
See IVA. Great Lakes Commerce.

Proceedings of Second National Boating Facilities Conference
By: Andrew T. Manus
1979 CUIMR-Z-79-001-016.
Obtain from: California Sea Grant College Program—see address list.

Professional Marine Careers
1979
Describes professional marine careers in the fields of environmental affairs, business, industry, consultation, educative engineering, merchant marine, fine arts, government and general occupations.
Obtain from: Michigan Sea Grant College Program—see address list.

Public and Private Rights in Coastal Areas—Chapter 5
By: Ronald W. Merritt
1977 NCU-B-77-002, pp. 1-112
Obtain from: North Carolina Sea Grant Program—see address list.

Regulation of Bulk Hazardous Cargoes on the Great Lakes
By: Robert I. Reis, et al.
1983 17 pp.
Obtain from: New York Sea Grant Institute—see address list.

Regulations that Apply to Aquaculture in Minnesota
By: David Landkamer, Mark Gross, and Anne Kapuscinski
1988 13 pp. Free
Obtain from: Minnesota Sea Grant Program—see address list.

Relationship of Port Development and Urban Waterfront Revitalization, The
By: John Armstrong, et al.
1981 103 pp.
Obtain from: South Carolina Sea Grant Consortium—see address list.

Restaurant Trade and Lake Perch Aquaculture, The
By: Robert Follett
1975 WISCU-W-75-001 1-2 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Salmonid-Based Charter Boat Fishing Operations on Lake Ontario: A Description and Status Report
By: Michael P. Voiland
1982 7 pp.
Obtain from: New York Sea Grant Institute—see address list.

Scientific Marine Careers
1979
Describe careers in the fields of biology, chemistry, geology, social science and general science.
Obtain from: Michigan Sea Grant College Program—see address list.

Seiche, The
See IA. Boating.

So You Want To Be a Seafood Dealer?
By: Jerald Horst, et al.
1987 17 pp.
Helps potential seafood business investors to understand the supply, market, and capital needed.
Obtain from: Louisiana Sea Grant College Program—see address list.

State and Local Restrictions on Siting Coastal Aquaculture Facilities in New York
By: Milton Kaplan
1984 159 pp.
Obtain from: New York Sea Grant Institute—see address list.

Supply of Rented Recreational Boats in New York State
By: Miklos Gratzer, et al.
1975 NYSGI-P-75-001, pp. 101-104
Obtain from: New York Sea Grant Institute—see address list.

Tank Spawning of Yellow Perch
By: Graden R. West
1977 WISCU-W-77-001, pp. 55-57
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Technical Marine Careers
1979
Careers include ship/boat building, commercial fishing, offshore mining and petroleum operating, port activity, marina and marine dealers.
Obtain from: Michigan Sea Grant College Program—see address list.

Towards a Balanced Perspective...Boat Sewage
By: Neil W. Ross
1985 4 pp.
A conference proceedings session.
Obtain from: Rhode Island Sea Grant—see address list.

Tribute to the Great Lakes, A
See IIIA. Great Lakes Urban and Natural Ecology.

Twine Line
See IA. Boating.

Undergraduate Training in Marine Technology on the Job
By: Norman E. Anderson, et al.
1971 CUIMR-Q-71-001 17-20 pp.
Obtain from: California Sea Grant College Program—see address list.

Underwater Copper Exploration in Lake Superior 2: Specific Targets Charted in 1974
By: Robert Paul Meyer, et al.
1975 16 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Unique Degree Program for the Shipbuilding Industry, A
By: Jacob Edwin Thomas, et al.
1974 8 pp.
A conference proceedings session.
Obtain from: Mississippi-Alabama Sea Grant Consortium—see address list.

Unit Train/Great Lakes Bulk Cost Comparison / Bulk Cargo, Cost Analysis, Marine Terminals, Railroads, Ships, St. Lawrence Seaway
By: Edward A. Beimborn, et al.
1977 Journal Reprint 10 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Upwellings
See IA. Boating.

Using a Social Carrying Capacity Model to Estimate the Effects of Marina Development at the Apostle Islands National Lakeshore
By: Thomas A. Heberlein, et al.
1986 18 pp.
This research focuses on a policy question: what will be the effects of additional marina slips on boating experience at the Apostle Island National Lakeshore.
Obtain from: National Sea Grant Depository—see address list.

Water Commerce of Indiana: A Profile of the State's Three Ports, The
See IVA. Great Lakes Commerce.

Wisconsin Aquaculture Plan
By: Clyde Amundson
1987
This state aquaculture plan reviews the status and examines the potential of fish farming in Wisconsin.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

IVE. Recreation Economics

Access to Great Lakes Salmonid Fishing Via Private Lands: A Study of New York's Riparian Landowners
By: Tommy L. Brown, et al.
1979 Journal reprint 8 pp.
Obtain from: New York Sea Grant Institute—see address list.

Angler Use and Harvest in the Pere Marquette River Near Baldwin, Michigan
By: K.M. Krueger, et al.
1985 Michigan Academician, quarterly journal of the Michigan Academy of Science, Arts and Letters, Vol. 17., No. 3, pp. 317-330
Obtain from: Michigan Academy of Science, Arts, and Letters, Toumy House, 2117 Washtenaw Ave., Ann Arbor, MI 48104.

Behavior Patterns of Divers Visiting the Alger Bottomland Preserve
By: Ronald E. Kinnunen, et al.
1987 9 pp. Free
Presents the results of the 1986 Michigan Recreational Diving Survey conducted at the Alger Underwater Preserve.
Obtain from: Ron Kinnunen, U.P. Extension Center, 1030 Wright St., Marquette, MI 49855.

Boat Shows in Annapolis, Gauging the Economic Impact
See IVD. Marine Industry.

Charter Boat Operator Study 1982
By: Jack Gray, et al.
1985 48 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Chicago Park District Annual Report
Free
Obtain from: Chicago Park District, 425 E. McFetridge Dr., Chicago, IL 60605; (312)294-2200.

Coastal Fishing Access: Needs and New Initiatives
By: Michael P. Voiland, Jr.
1984 Conference proceedings pp. 97-104
Obtain from: New York Sea Grant Institute—see address list.

Coastal Zone Management Information Exchange
See IIA. Our Great Lakes Heritage.

Coastlines
See IA. Boating.

Cobbler's Cove: A Simulation of Coastal Planning
By: Sandor Schulman, et al.
1980 8 pp.
This is one section of a 6-part set of activities for youth.
Obtain from: New York Sea Grant Institute—see address list.

Courtesy is Contagious: Guidelines for Improving Your Tourism Hospitality Skills
By: Chad P. Dawson, et al.
1986 11 pp. Free
This booklet shows how an employer in different types of tourist facilities (restaurants, gas stations) can make a tourist feel welcome.
Obtain from: Illinois Indiana Sea Grant Program—see address list.

Creating Lively Waterfronts—An Urban Recreation Workshop
1984 Journal reprint
Obtain from: Virginia Sea Grant College Program—see address list.

Current Use of Water Surface Zoning for Recreation
By: Tommy L. Brown, et al.
1979 Journal Reprint 8 pp.
Obtain from: New York Sea Grant Institute—see address list.

Doing the Dunes
By: Jean Komaiko, et al.
1974 232 pp.
Obtain from: Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304; (219)926-7561.

Duel for the Dunes, Land Use Conflict on the Shores of Lake Michigan
See IIA. Our Great Lakes Heritage.

Economic Contribution of Lake Erie Sport Fishing to Ohio, The
By: Leroy J. Hushak
1985 TS-014 6 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Economic Contribution of Ohio's Lake Erie Charter Boat Industry, The
By: Leroy J. Hushak
1985 TS-013 8 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Economic Impact of an Annual Tourism Industry Exposition
By: William Gartner, et al.
1983 Journal Reprint 14 pp.
Obtain from: Michigan Sea Grant College Program—see address list.

Economic Impact of Lake Erie on Northern Ohio
By: Leroy J. Hushack, et al.
1983 TS-005 8 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Economic Impact of the Winthrop Harbor/Zion Marina
By: Warren Wood
1985 120 pp.
Obtain from: Lake County, Illinois, Economic Development Commission, 18 N. County St., Waukegan, IL 60085; (606)451-3651.

Economic Value of Lake Erie Sport Fishing to Private-Boat Sport Anglers
By: Leroy J. Hushak, et al.
1984 TS-012 11 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Economic Value of Recreational Boating on Lake Erie, The
By: Kenneth A. Wenner
1982 TB-005 10 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Economic and Social Impact of a Developing Salmonid Sport-Fishery: The Case of the 1978 Rochester-Lake Ontario Derby, The
By: Michael P. Voiland
1979 Journal Reprint 3 pp.
Obtain from: New York Sea Grant Institute—see address list.

Estimating the Value of Variations in Anglers' Success Rates: An Application of the Multiple-site Travel Cost Method
By: Carl C. Samples, et al.
1986 20 pp. $6.75
This is an estimation method measuring sport fishermen's evaluation of changes in fishing quality.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Excursion, Cruise and Passenger Ferry Service on the Great Lakes and St. Lawrence River
See IVA. Great Lakes Commerce.

Expenditures of Anglers Fishing in New York's Great Lakes Water
By: Chad Dawson
1986 8 pp.
This is a summary of a survey of 38,000 anglers, designed to measure sportfishing effort, angler harvest, and the trip expenditures of anglers.
Obtain from: New York Sea Grant Institute—see address list.

Family Guide to Minnesota's North Shore, A
By: Nancy Hereid and Eugene Gennaro
1986 43 pp. $3.95
Obtain from: Minnesota Sea Grant Program—see address list.

Financing Boating With Tax Dollars: Trends and Alternatives in New York State
By: Tommy L. Brown
1979 30 pp.
Obtain from: New York Sea Grant Institute—see address list.

Foss Park Marina, North Chicago, Illinois: A Report to Lieutenant Governor Ryan
By: Warren Wood
1985 40 pp.
Obtain from: Lake County Economic Development Commission, 18 N. County St., Waukegan, IL 60085.

Getting Coastal Permits: Regulatory Programs on New York's Great Lakes Coast
See IIIA. Great Lakes Urban and Natural Ecology.

Governor's Conference on Lake Michigan Illinois' Great Lake: Protecting and Developing a Valuable Natural Resource, A
See IIA. Our Great Lakes Heritage.

Grand Hotel, Mackinac Island, Michigan, 1887-1987
By: John McCabe
1987 274 pp. $29.95
Obtain from: Wayne State University Press, 5959 Woodward Ave., Detroit, MI 48202.

Great Lakes Charter Boat Fishing
By: Lynn Frederick
1987 2 pp.
Explains how to select a charter boat, discover local fishing opportunities, and prepare for your experience.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Great Lakes Charterboat Fishing Industry, The
See IVD. Marine Industry.

Great Lakes—An Environmental Atlas and Resource Book, The
See IIA. Our Great Lakes Heritage.

Great Lakes Facts Brochures
See IIIA. Wetlands.

Great Lakes Guidebook, The
See IIA. Our Great Lakes Heritage.

Great Lakes Recreation—Tourism Futurescapes
By: Francis M. Domoy
1981 31 pp.
Obtain from: New York Sea Grant Institute—see address list.

Great Lakes Reporter, The
See IIA. Our Great Lakes Heritage.

Great Lakes Travel and Living
By: Great Lakes Publishing Co.
Monthly $ 23.90 (Annual subscription)
This magazine focuses on activities and places for recreation and tourism in the region.
Obtain from: Great Lakes Publishing Co., PO Box 423, Mt. Morris, IL 61054.

Great Lakes Vacation, A
By: M. Lisowski, et al.
1987 EP-024 Teacher guide (14 pp.) and student workbook (8 pp.) $3.00
Students learn how the resources of the Lake region create attractive recreation opportunities. (can be used with optional computer activity)
Obtain from: Ohio Sea Grant College Program—see address list.

Harbor Rehabilitation and Recreational Development in Racine, Wisconsin
By: Leonard Ziolkowski, et al.
1987 8 pp.
Obtain from: County Executive, Racine County, 730 Wisconsin Ave., Racine, WI 53403.

HELM: Happenings and Educational Activities Around Lake Michigan, The
See IA. Boating.

How Citizens Can Influence Legislation in Michigan
By: Gary Chilson, et al.
1982 E-1553 12 pp. $1.10
Obtain from: Cooperative Extension Service, MSU Bulletin Office, 10-B Agriculture Hall, Michigan State University, East Lansing, MI 48824-1039.

Illinois Beach State Park
By: Site Superintendent
1986 2 pp.
This brochure gives information about the parks facilities and natural history.
Obtain from: Illinois Beach State Park, Zion, IL 60099; (312)662-4811.

Imagining the Future at Niagara Falls
By: Patrick McGeevy
1987 15 pp.
Obtain from: Great Lakes Commission, Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Impacts of Recreation and Tourism on the Local Economy: Case Studies for Minocqua, Woodruff and Algoma
By: S. J. Bubul, et al.
1978 165 pp.
Obtain from: Recreation Resources Center, University of Wisconsin—Extension, Ag. Bulletin Bldg., Rm. 245, 30 Murray, Madison, WI 53715.

Indiana Marina Market and Economic Study
1986 125 pp.
Obtain from: Lake Michigan Marina Development Commission, 8149 Kennedy Ave., Highland, IN 46322; (312)731-2646 or (219)923-1118.

Inventory of Emerging Great Lakes Recreational Businesses in Wisconsin
By: Karen Plass
1987 31 pp. Free
Includes inventory of ferries, excursion boats, charters, sailing, schools and names of businesses providing the services.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Investing in Lake Forest's Future, A Report to the Residents of Lake Forest
1986 12 pp.

This report contains information on a well-built and cost-effective set of erosion protection breakwaters.
Obtain from: The City of Lake Forest, 220 E. Deerpath, Lake Forest, IL 60045.

Lake County, Indiana Visitor
By: The Lake County Convention & Visitor's Bureau
Yearly 10 pp. Free

This visitors guide and map contains a calendar of festivals, highlights of parks, recreation and sports activities, history, sightseeing, shopping and other information.
Obtain from: Lake County Convention & Visitor's Bureau, 5800 #N, Merrilville, IN 46410; (219)980-1617.

Lake Effect: Impact of the Great Lakes on the Region's Economy, The
See IVA. Great Lakes Commerce.

Lake Huron Recreation and Weather
By: Martha W. Deline, et al.
1983 MICHU-SG-82-102 56 pp. Free

This describes the recreation and weather along Lake Huron's shore.
Obtain from: Michigan Sea Grant College Program—see address list.

Lake Michigan Angler: A Wisconsin Profile
By: Karl C. Sample, et al.
1981 WIS-SG-81-42359 pp.

Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Lake Michigan Circle Tour
By: West Michigan Tourist Association
Annual 51 pp. Free

This booklet contains maps, addresses, general suggestions and advertisements of attractions and accommodations along the Circle Tour as it passes through the four states bordering Lake Michigan.
Obtain from: West Michigan Tourists Association, 136 E. Fulton, Grand Rapids, MI 49503; (616)456-8551.

Lake Michigan Marina Development Commission - Annual Report 1987
By: The Lake Michigan Marina Development Commission
1987 12 pp. Free

This report gives the history, membership, past meeting logistics, city descriptions, finance and mission of the Commission.
Obtain from: Lake Michigan Marina Development Commission, 8149 Kennedy Ave., Highland, IN 46322; (312)731-2646 or (219)923-1060.

Lake Michigan Monitor
See IIA. Our Great Lakes Heritage.

Lake Michigan Shoreline Concept Plan
By: T. L. Hernandez, et al.
1983 10 pp.

Obtain from: Lake County, Illinois Planning Department, 18 N. County St., Waukegan, IL 60085; (312)731-2646.

Land Use and the Law
By: Larry R. McCormick, et al.
1984 NYSGI-B-84-001, pp. 79-84

Obtain from: New York Sea Grant Institute—see address list.

Little Calumet River Project, 1983 Annual Status Report
1984 21 pp.

Obtain from: Little Calumet River Basin Development Commission, 8149 Kennedy Ave., Highland, IN 46322; (219)923-1118 or (312)360-6350.

Littoral Drift
See IA. Boating.

Long Blue Edge of Summer, The
By: Dorris Scharfenburg
232 pp. $ 9.95 (add $1.25 per book for shipping, 6% sales tax for Ohio residents)

A tour of the 3000 mile Michigan coastline.
Obtain from: The Great Lakes Bookseller, 108 W. Perry St., Port Clinton, OH 43452.

Marina Development Plan
1986 117 pp.

Obtain from: Lake Michigan Marina Development Commission, 8149 Kennedy Ave., Highland, IN 46322; (312)731-2646 or (219)923-1118.

Marine Recreational Uses of Green Bay: A Study of Human Behavior and Attitude Patterns
By: Robert B. Ditton, et al.
1972

Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Methodology for Estimating the Economic Impact of Sportfishing Tournaments, A
By: Michael J. Ellerbrock, et al.
1984 27 pp.

Obtain from: Florida Sea Grant College Program—see address list.

Michigan Great Lakes Recreational Boating—A Synthesis of Current Information
By: Daniel J. Stymes, et al.
1982 86 pp. $5.00

Obtain from: Michigan Sea Grant College Program—see address list.

Navy Pier, A Vision for the Future: The Mayor's Navy Pier Task Force Report
1985 66 pp.
Obtain from: City of Chicago, Department of Economic Development, 20 N. Clark, Chicago, IL 60602.

New York Recreational Boating Survey
By: Tommy L. Brown, et al.
1977 75 pp.
Obtain from: New York Sea Grant Institute—see address list.

New York State Seaway Trail Information Packet
By: Seaway Trail Inc.
Yearly Free
This packet contains various publications about the New York Seaway trail.
Obtain from: Seaway Trail, Inc., Poucher Hall #202, State University of New York, Oswego, NY 13126; 1-800-36-SEAWY (in NY) or 24-SEAWY (outside NY).

New York State Seaway Trail Annual Report
By: Seaway Trail Inc.
Yearly 10 pp. Free
This annual report gives the membership list, accomplishments, committee reports, and balance sheet of Seaway Trail, Inc.
Obtain from: Seaway Trail, Inc., Poucher Hall, #202, State University of New York, Oswego, NY 13126; 1-800-36-SEAWY (N.Y) or 1-800-24-SEAWY (Others).

New York State Supplement to Coastal Problems and Resource Management
See IIA. Our Great Lakes Heritage.

New York's Great Lakes Recreational Weather
By: David G. White, et al.
1986 6 pp. $0.85
This gives insight into seasonal weather patterns and offers a summary of weather information.
Obtain from: New York Sea Grant Institute—see address list.

Newspaper clippings from 5-county area of the Illinois-Indiana Lake Michigan region—1986 to Present
See IA. Boating.

1986 Recreational Diving Activity in Michigan Bottomland Preserves
By: Jon P. Peterson
1987 12 pp. Free
This describes the bottomland preserve diver activity across the state and provides data that could be applied to local marketing and development efforts.
Obtain from: Cooperative Extension Service, PO Box 599, Tawas City, MI 48764.

1987 Michigan Harbors Guide
Contains aerial photos and other information about Michigan's public recreational harbors.
Obtain from: County Extension Office, Rm. 101, Ottawa County Bldg., Grand Haven, MI 49417; (616)846-8250.

1987 Survey of Charterboat Operators on Southern Lake Michigan
By: Diane Samdahl
1988 34 pp. $1.00
This contains data and analysis on characteristics of Illinois and Indiana charterboat operators, their business, customers, potential growth and impact on local tourism economics.
Obtain from: Illinois-Indiana Sea Grant Program—see address list.

Norfolk Harborfest '86: Tenth Anniversary Analysis
By: Jon A. Lucy, et al.
1986 68 pp.
This is an analysis of the 1986 Norfolk's Harborfest which demonstrates that the festival continues to provide a quality family-oriented recreational event.
Obtain from: Virginia Sea Grant College Program—see address list.

North Point Marina, Illinois Beach State Park Feasibility Study—Main Report
1985 57 pp.
Obtain from: State of Illinois Department of Conservation, PO Box 401, Winthrop Harbor, IL 60096; (312)746-2845.

North Shore Drive of Lake Superior: Vacation Travel and Accommodation Guide
By: Lake Superior North Shore Association
Yearly 8 pp. Free
This gives detailed maps and mileage on various attractions, lodgings, and restaurants along a section of the Lake Superior Circle Tour that winds from Duluth to Sault Ste. Marie.
Obtain from: Lake Superior North Shore Association, PO Box 159, Duluth, MN 55801.

North Shore's Travel Tourism Industry and Its Market Segments, The
By: Uel Blank, et al.
1984 99 pp.
Obtain from: Minnesota Sea Grant Program—see address list.

Outdoor Highlights
Semi-monthly
Obtain from: Illinois Department of Conservation, Lincoln Tower Plaza, 524 South 2nd St., Springfield, IL 62706; (217)782-7454.

Outdoor Indiana
Monthly
Obtain from: Indiana Department of Natural Resources, 612 State Office Bldg., Indianapolis, IN 46204.

Outdoor Recreation in Illinois: 1985-1986 Action Program
24 pp.
Obtain from: Illinois Department of Conservation, Planning Division, Lincoln Tower Plaza, 524 S. 2nd St, Springfield, IL 62706; (217)782-3715.

Outdoor Recreation in Illinois: The 1988 Policy Plan
1988
Obtain from: Illinois Department of Conservation, Division of Planning, Lincoln Tower Plaza, 524 South 2nd St., Springfield, IL 62706; (217)782-3715.

Plan for the Duluth Downtown Waterfront, A
By: Department of Planning and Development
1985 48 pp.
This report discusses the history, current situation, plans and implementation considerations for 8 sectors of the waterfront.
Obtain from: City of Duluth, Minnesota.

Private-Boat Walleye Angling in the Ohio Waters of Lake Erie: An Economic Evaluation
By: Jane Marie Winslow
1982 TB-008 185 pp. $20.00
Obtain from: Ohio Sea Grant College Program—see address list.

Profile of 1986 Diver Activity in the Thunder Bay Bottomland Preserve, A
By: Jon P. Peterson, et al.
1987 9 pp. Free
This report summarizes survey information collected during the 1986 diving season at Thunder Bay.
Obtain from: Cooperative Extension Service, PO Box 599, Tawas City, MI 48764.

Profile of Great Lakes Diver Activity, Travel and Expenditure Patterns, A
By: Jon Peterson, et al.
1987 18 pp. Free
These results of the 1987 survey of Michigan and Midwest scuba divers relate destinations, money spent, and type and frequency of dive trips. Includes a computer model to project diver expenses.
Obtain from: Cooperative Extension Service, PO Box 599, Tawas City, MI 48764.

Property Stewardship: Getting Involved in Community Development
By: Stephen Lopez
1981 16 pp.
Obtain from: New York Sea Grant Institute—see address list.

Public Trust Doctrine in England and America, The
By: W. Keith Kavenagh
1980 NYSGI-T-80-004, pp. 185-210
Obtain from: New York Sea Grant Institute—see address list.

Recreation and Weather Guide to the Minnesota Shore of Lake Superior
See IA. Boating.

Regional Economics of Michigan's Salmonid Program: Does a $20 Million Fishery Really Make a Difference?
By: Tommy L. Brown
1982 Symposium Proceedings, pp. 125-128
Obtain from: New York Sea Grant Institute—see address list.

Regional Impacts of Fishery Allocation to Sport and Commercial Interests: A Case Study of Ohio's Portion of Lake Erie.
By: Leroy J. Hushak, et al.
1986 RS-065 8 pp. Free
Economic impact comparison study between sportfishing and commercial fishing.
Obtain from: Ohio Sea Grant College Program—see address list.

Regulating Urban Waterfront Structures
By: Milton Kaplan, et al.
1981 11 pp.
Obtain from: New York Sea Grant Institute—see address list.

Rise of Lake Ontario's Charterboat Industry: Some Indications of the Socioeconomic Impact of a Developing Salmonid Fishery, The
By: Michael P. Voiland
1983 5 pp.
Obtain from: New York Sea Grant Institute—see address list.

Satellite Image Map of Northeastern Illinois
See IIIA. Great Lakes Heritage. (Maps and Charts)

Scuba Diving the Minnesota Shore of Lake Superior
See ID. Other Water Sports and Safety.

Seiche, The
See IA. Boating.

Selected Annotated Bibliography: Coastal Resource Management
By: Hamann Richard
1987 82 pp. (also on IBM disk - $5)
This is a coastal resource management bibliography.
Obtain from: Florida Sea Grant College Program—see address list.

Shipping on the Great Lakes
See IVA. Great Lakes Commerce.

Shorefront Fishing in New York City
By: Charles Heatwole, et al.
1985 20 pp.
A survey of New York city urban fishermen shows what city and state fisheries managers should know to increase their fishing access.
Obtain from: New York Sea Grant Institute—see address list.

Singing Sands Alamanac
Newsletter that contains the current events happening on Indiana's lakeshore.
Obtain from: Friends of Indiana Dunes National Lakeshore, 1100 N. Mineral Springs Rd., Porter, IN 46304; (219)926-7561.

Social Carrying Capacity for Boating at Apostle Island National Lakeshore
By: Thomas A. Heberlein, et al.
1983 85 pp.
Obtain from: University of Wisconsin Sea Grant Institute—see address list.

Southern Lake Michigan Sportfishery: Angler Profiles and Specialization Index for Illinois and Indiana
See IB. Sportfishing.

Spending Patterns and Economic Impacts of Michigan Registered Boat Owners
By: Daniel J. Stynes, et al.
1983 MICHU-SG-83-210 102 pp. $5.00
Obtain from: Michigan Sea Grant College Program—see address list.

Staging a Renaissance on the Waterfront
By: Mitchell L. Moss
1980 Journal Reprint 16 pp.
Obtain from: New York Sea Grant Institute—see address list.

Strategy to Export Salmonids and Import Dollars in Northeast Ohio, A
By: Frank R. Lichtkoppler, et al.
1984 TS-008 6 pp. $2.00
Obtain from: Ohio Sea Grant College Program—see address list.

Supply of Rented Recreational Boats in New York State
By: Miklos Gratzer, et al.
1975 NYSGI-P-75-001, pp. 101-104
Obtain from: New York Sea Grant Institute—see address list.

Travel, Tourism, and Outdoor Recreation in the Great Lakes States: A Statistical Profile
By: Great Lakes Commission
1989 60 pp. $10.00
Obtain from: Great Lakes Commission, The Argus II Building, 400 S. Fourth St., Ann Arbor, MI 48103.

Tribute to the Great Lakes, A
See IIA. Our Great Lakes Heritage.

Trust Doctrine, The Colonial Patents, and the New York State Courts, The
By: W. Keith Kavenagh
1980 NYSGI-T-80-004, pp. 211-246
Obtain from: New York Sea Grant Institute—see address list.

Tips on Serving Patrons wth Special Needs
By: Linda L. Parks
1985 8 pp. $0.50
This fact sheet was developed to assist the tourist/hospitality industry in addressing the needs of the disabled patrons in order to better serve them.
Obtain from: New York Sea Grant Institute—see address list.

Twine Line
See IA. Boating.

Upwellings
See IA. Boating.

Value of Recreational Boating and Fishing in the Central Basin of Ohio's Portion of Lake Erie, The
By: Nilima Dutta
1984 TB-018 105 pp. $12.00
Obtain from: Ohio Sea Grant College Program—see address list.

Vision for Illinois Recreation and Tourism Future, A
By: Governor's Statewide Task Force on Recreation & Tourism
1987 33 pp. Free
This report presents an exciting vision of Illinois' potential as a major tourism state including financing strategies.
Obtain from: Illinois Department of Conservation, Comprehensive Planning Section, 524 South 2nd St., Springfield, IL 62706; (217)782-3715.

Using a Social Carrying Capacity Model to Estimate the Effects of Marina Development at the Apostle Islands National Lakeshore
By: Thomas A. Heberlein, et al.
1986 18 pp.
This research focuses on a policy question: what will be the effects of additional marina slips on the boating experience at the Apostle Island National Lakeshore.
Obtain from: National Sea Grant Depository—see address list.

Water Works! A Survey of Great Lakes Waterfront Development on U.S. and Canadian Shores
1986 32 pp.
Obtain from: The Center for the Great Lakes, 435 N. Michigan Ave., Suite 1408, Chicago, IL 60611; (312)645-0901.

Water and the Michigan Economy: Estimating the Economic Value of Michigan's Fresh Water
See IVA. Great Lakes Commerce.

Waterfront Festivals: Catalysts for Maritime Heritage and Waterfront Redevelopment
Discusses the importance and benefits of waterfront festivals.
Obtain from: Virginia Sea Grant College Program—see address list.

Sea Grant Program Contacts for Obtaining Publications, Software, and Audiovisuals in this Guide

Alaska Sea Grant College Program
Communications Office
138 Irving II
Fairbanks, AK 99775-5040

California Sea Grant College Program
Communications Office
University of California, A-032
La Jolla, CA 92093-0232

University of Southern California Sea Grant Program
Communications Office
University Park
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